COMING EVENTS IN FLORIDA

Melbourne Hamfest, Sept. 6 & 7th.
Tampa Hamfest, Tampa, Oct. 18th & 19th.
National QCWA Convention, Orlando Oct. 31 & Nov. 1
Sun. ast Convention, St. Petersburg, Nov. 1 and 2nd.
Broward Holiday-fest, Dec. 13 & 14th.
1 9 8 1
Saraota Hamfest, Jan. 17 & 18th.
Miami Hamboree, Feb. 7 & 8th.
Pinellas Boys Club Hamfest, Feb. 15th.
Treasure Coast, Vero Beach Hamfest, Feb. 21 & 22nd.
National ARRL Conv. & Orlando Hamcation Mar. 13-15th.
Playground, Wt. Walton Bch Swapfest, Mar. 21 & 23.
Miami's International A.R. Elec. Eqpt Fair. Aug. 12-21.
(See ads elsewhere for full details. Send dates early please.)

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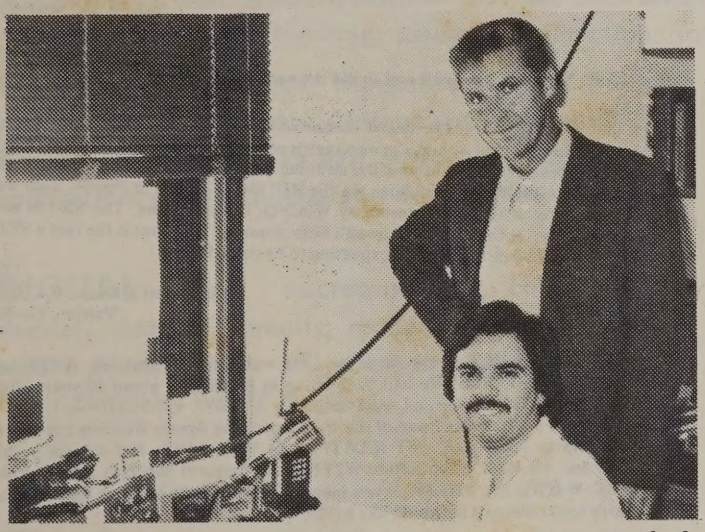
VOL. 24 NO. 4 THE ALL-FLORIDA AMATEUR RADIO AMATEUR'S PUBLICATION September 1980 Price 40c



Recently Dade County ARPSC Planning Committee reached an agreement to provide Emergency Communications to and from the NOAA Hq. in Miami. Here Julio Ripoll, WD4JNS, NOAA Station Coordinator, pose with Dr. Neil Frank, Director of the National Hurricane Center durig a lul with Hurricane Allen. The NOAA station will be active during all future hurricanes with Dr. Frank's blessings. See front page story.

W4NLX/4 EXPEDITION

The Indian River Amateur Radio Club of Cocoa, Florida will be operating from Christmas, Florida during this coming yuletide season. The dates will be from Dec. 20 thru Dec. 27. Operating times will generally be from 1400z to 2000z daily. The town of Christmas, located on the East coast of Florida, welcomes many visitors each year from around the U.S. Christmas is celebrated each and every day of the year. There are fully lighted Christmas trees, wreaths, decorations along with Santa and his helpers. The Indian River Amateur Radio Club, as a celebration of its 26th year of organization, will use the club call sign, W4NLX/4.

A special handsome 8-1/2 x 11 certificate will be available to all worked stations. This certificate depicts some of the aspects of Christmas in Florida. Arrangements have been made to have a special cancellation at the U.S. post office for this award. Please send a large SASE for the certificate. Operating frequencies on SSB will be 7.280, 14.280, 21.380 and 28.680. On CW the club will operate up 60 khz on the 40, 20, 15 and 10 meter bands. Also, the 146.34/94 repeater will be for local contacts. QSL to Indian River Amateur Radio Club, W4NLX; P.O. Box 105, Christmas, FL 32709.

AMATEUR RADIO OPERATIONS AT NATIONAL HURRICANE CENTER

By Julio Ripoll, WD4JNS

On Sunday, August 3, 1980 Miami was having a nice sunny clear day, but elsewhere in the Caribbean a tropical storm named Allen had turned into a hurricane destined to kill over 90 people and cause heavy damage to the islands of St. Lucia, Haiti, Jamaica, and end up in Texas.

Shortly after Allen had become a hurricane the official Amateur Radio Station at the National Hurricane Center was activated by Dade County E.C. Andy Clark W4IYT. The equipment that was provided by the University of Miami Amateur Radio Society was promptly in place and operating sending the latest hurricane advisories to the affected areas on the Hurricane net, "14.325 mhz," and receiving weather reports from the islands for use by the forcasters.

The station was in operation approximately 130 manned hours. During those hours many messages were logged. For example when Hurricane Allen passed over St. Lucia Island, we were the only link between NHC and their weather bureau. Throughout that night Ham Robinson W4ZR relayed important weather information from 80 meters to NHC over 2 meters. Also the first reports of the damage caused by Allen, which gave NHC forcasters first hand information on the strength of Allen, were received at NHC.

Weather information was also received from remote locations in the affected area, such as; Jamaica, Haiti, Cuba, Caymans Cozumel, Cancum, Yucatan, and many marine mobiles. In all we handled 90 radiograms and logged 20 pages for NHC from the affected area.

One important QSO happened when the Brownsville Weather Center lost all power and had communications problems with NHC. At that time Dr. Joseph Pelissier, Hurricane Forecaster NHC, spoke with Dr. Richard Hagen, Director of Brownsville Weather Center, who also had a ham radio station on emergency power. They discussed the strange behavior of Allen's eye and why it had stalled for 2 hours just off the Texas coast. Many other important QSO's occurred too numerous to mention.

The operation of this station was not only vital for the Caribbean Islands to get the latest information, but it helped here at home also, by bringing the local ham community together behind a purpose and got more PR than ever before, acknowledging the value of Ham Radio and giving us a good reputation.

Some of the PR we got was from TV Channels 4, 6, 7, 10, 51, NBC National, Time Magazine, Miami Herald, Miami News, WPLN, WLRN, WNWS, WGBS and others.

All of the forecasters expressed their gratitude to us for our operations which they rated A+. Dr. Neil Frank, Director of NHC sent this message:

QSY TO BACK PAGE

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SILENT KEYS IN FLORIDA

We are deeply sorry to report the passing of the following amateurs. May they R. I. P.

W4LDM, Whee Vinning, Orlando
N4CW & W2AGT, Charles Whiteley, Venice
W4PJE & W9LYI, Hugh A. Hoym, Orland Park, IL
W4EKJ William S. Heston, Lauderdale by the Sea
K4FAT William Cram, Salt Springs, FL
N4JT John W. Taylor, Stuart
K4HA Wray Gillete, Ft. Lauderdale, FL
W4CJV Robert C. Hover, Cape Coral
WD4HYJ James C. Williams, Lake Worth
WD4KAW Calhoun Norton, N. Palm Beach
N4LV Jacob Dubinski, Ormond Beach
W4NGD Byron W. Stotts, Miami
K4TQW Robert H. Kastle, St. Petersburg
W4YLR Russell W. Conrow. Deltona

EX CALLS

Here is another list of EX Calls. Have you sent in your?

W4PWX	ex	W3KSS, W6KSS, XUlYK
K4HGQ	ex	W2KAZ
KC4EA	ex	WB4GPL, W3SBF
KC4IQ	ex	N4BVB
W3TLV	ex	W2DJP, W5KLX
KA4KWR	ex	KN4KYX
KC4FA	ex	KA4JEL
KC4FY	ex	KA4AFT
NA4F	ex	WA4EYW, WN4EYW
KY4G	ex	WA4ZGH

NEW AMATEUR RADIO CLAEESS

By Ruth Berg, KA4AEV

The following classes are being held at Nova-Davie Community School, 3600 SW 70th Ave., Davie. Classes begin the week of September 8th. For more information call 765-6964.

General Theory - Tuesday 7 to 10 p.m. instructor, Ken WA4SFQ CW 5 to 13 wpm. Wednesday 7 to 10 pm instructor, Ruth KA4AEV Novice theory & code - Thursdays 7 to 10 pm instructor, Harold KB4KK.

letters
to the editor

Dear Andy:

What is taking place with Amateur Radio? Certainly it seems to have aquired a serious illness.

I have been monitoring the emergency net for the past three days on 14325Khz. In all my near fifty years of amateur radio I have never heard such rude interference and unnecessary break-ins. Net controls would beg and plead stand by even in trying to make contact with CW SOS. Would also call for one specific station and six or eight stations would break in. Even right now a CW SOS calling and there is a strong carrier on the frequency. They seem to think it is a hoax (3:24 p.m.) 1824GMT.

I even heard music being played on the emergency frequency at about 1:30 p.m. today.

They just offered to go up 5Khz for the SOS and no response which indicates it was a false call. WA4DUZ was the station that went off freq. for the SOS. It's a shame we have sick people like this interferring when life and property is at stake.

FCC don't have the force to police the bands. It seems to me that the amateurs join together and if they know of anyone violating the rules to report them to the FCC and be willing to appear against the violators if neccessary. We have been gentlemen long enough not wanting to take action of this kind.

John P. Six, W4PYA
1081 Cobblestone Ave.
Deltona, Florida 32725

(Editor's note: Yes Jack, I heard it and so did the world!)

Dear Andy:

Over the past few years, I've heard numerous reports of problems with Heath's SB-104A — mine included — and a general spirit of disillusionment. After reviewing a number of articles on how to improve the unit, including installing RIT features, I had about decided to finalize my problems via the RIP route — Rest in Pieces. That was until I came across a SKIP ad inserted by W2CNQ, Lowell White. The SB-104 now exists on a reprieve as the result of Lowell's help. Equally important is the fact a SKIP ad is one to be trusted instead of half expecting to be ripped off.

73's,
Carl J. Kunz, WA4IEW
Valrico, Florida

Dear Andy:

I would like to report a recent silent key. He was Charles Whiteley, N4CW (ex W2AGT) of Venice, Florida. He had been living in Florida for about 10 years after retiring from Sperry Gyroscope on Long Island.

He was a grand old timer and one of the founders of the Sperry Retirees net which meets Tuesdays at 12:30 p.m. EST (EDST) on 14.280+ MHZ. Net control is the Sperry Lake Success Radio Club station W2YKQ and frequent checkins from Florida are W4AZS, W4PND and W4LEP. If you mention the net in SKIP there maybe some other Sperry ham retirees who would like to check in.

73's,
Robert W. Olthuis, W2NBI/N2RO
Garden City, New York

Dear Andy:

I am enclosing a short article which I believe the readers will enjoy. Perhaps many are too young to have lived in the days of Eric Palmer, Jr., but I believe all (including many dads of young hams) might well take a lesson from this.

I am not sure whether Eric is still a ham, but before leaving my home in Brooklyn to move to Florida I ran across a listing in a Brooklyn telephone book . . . Dr. Eric Palmer. I never had a chance to phone him, but hope to do so when I get up north again.

Andy, if you like these short articles, I will be gald to forward others from time to time taken from my long association with ham radio.

73's,
G. Samkofsky, N4ZB
1420 Mount Vernon Drive
Holiday, Florida 33590

Editor's Note: Thanks — keep 'em comin!

Dear Editor:

The Indian River Amateur Radio Club has decided to conduct an expedition to Christmas, Florida for the Christmas Holidays this coming December, 1980.

The town of Christmas, Florida is decorated throughout the year with lighted Christmas trees, wreaths and poinsettas, etc. Many visitors from all over the U.S. visit this area throughout the years. It's amazing to see their reaction when they see a Christmas tree in 90 degree weather!

In order to celebrate our 26th year of incorporation, we will be preparing a very special certificate depicting how Christmas is celebrated in Florida!

Enclosed is a Press Release which you may modify as you see necessary.

Thank you for publicizing our club activity.

With kindest regards,
Carl S. Zelich, AARMI
President
Indian River Amateur Radio Club
Merritt Island, Florida

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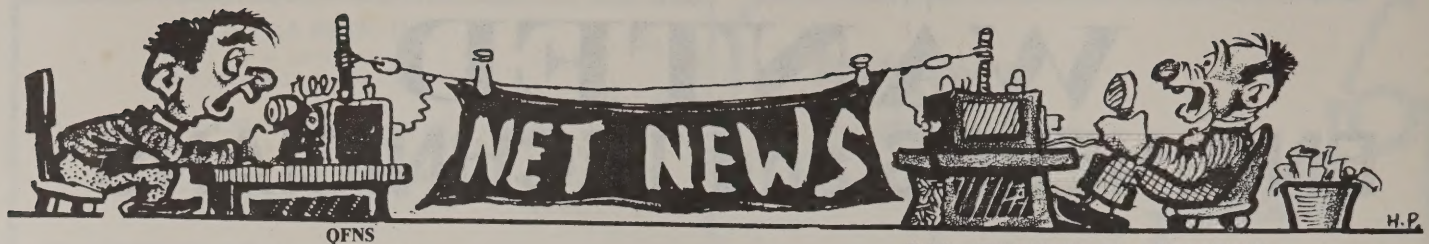

QFNS

By Barry Felps

First let me say it is a pleasure to manage the slow net QFNS. I must admit that there is little to do since Dick Hill has things so well organized. He put his heart and soul into it and made my job easy. One of the things that make a net successful is its membership. QFNS is no different. The net control stations and QFN reps have been very faithful to duty. Thank you all very much.

Gary, N4AXN has taken over as the QFN rep on Tuesdays. Bill, KA4GDV and Herb, W4YCL have changed slots, switching Tuesday NCS for Monday NCS.

QTC fell this month as vacations have taken their toll, Hopefully August will be higher and more normal. High QNI this month WD4HIG - 29, WA4PFK - 29, KA4ASZ - 21 and WB4FVV - 21. Net certificates go to N4AXN and WA1IOG for three consecutive months of at least ten qni per month.

Remember, let your fingers do the talking and CW it's A-1. See you on QFNS 3715 0000Z daily.

GATOR NET

By Doug Ryan, W4MEE

Ye old Gator Net doing pretty good, 35 stations checking in this month. Traffic down from last month but still pretty good for summer month. Gator Net will sure miss Whee, W4LDM. Don, N4ET will be NCS on Thursday until further notice. We need more Net Controls, W4MEE doesn't mind doing it, but it would be better to have a different NCS each day. Harris, WA4JDH complains about cold grits. Can't always clear him right away. W4MEE doesn't even get any grits some times. Al, W3VR almost ready with his new tower and new antenna systems.

W4MEE, WA4JDH and W3CUL working W4JL at the Jax Hamfest this month, which has just closed as I am writing this epistle. We didn't have too heavy a traffic load but very interesting.

Sandy, WB4DTS and Jim, W4JL manning the keyer at the festival. Jim, W4JL left his keyboard at home. They had some trouble with RF getting into the keyer, but not problems copying Jim's fist or Sandys. Liked getting messages from the guys who strolled by the operating position, like WA4PFK, WD4DNC and ED, N4EC N4WA W4SIZ, WD4AWN also manned the key and took some traffic for Billy, N4UF.

We welcome Jan, WD4AWN to Gator Net and hope she stays around. We need Ft. Myers outlet. Always a pleasure to hear John, WD4COL QNI. Floyd, N4FL a big help with local traffic, helps the load. We have Hal, W3IDO, Daytona covering that area. Thats what we need more coverage. Sorry, we can't give you guys traffic every day, but keep coming, will try to QNX you as soon as possible. The name of the game is fun, handle traffic, operate, build you your code speed getting into CW nets is the way to do it. CW will never die.

FLORIDA MIDDAY TRAFFIC NET

By Al Suhr, WB4AID

A refinement of the Daytime NTS operation has distributed the duties as follow: FMTN responsible for Transmit into NTS and TPTN makes the down cycle with receive stations. Works fine.

Congratulations to Billy Williams, N4UF, on becoming the SCM of the Northern Florida Sect. As you know Billy is the senior assistant manager of FMTN as well as one of the NC stations and helps with D4RN duties as well. We stand ready to assist him when called upon.

FMTN Assistant Manager, D4RN Reps., Charles Terry, W4FZX has found it necessary to resign that position. Other pressing matters must take his time and energy. FMTN is really sorry to see Charles step aside. His influence in the management of FMTN affairs in connection with meeting the never ending schedules of D4RN has brought forward a corps of operators second to none. His guidance and thoughts on the many FMTN concerns may not be lost, though; he intends to check in as personal time allows. He remains a member of FMTN. Just want to thank W4FZX for the many hours he has devoted to FMTN, with never a complaint. Our best regards and wishes for good fortune go out to him and his wife, Mary.

The FMTN meeting at the Jacksonville Hamfest was attended by 30 amateurs, 15 of whom are members. Information was given about how FMTN accomplishes the task of seven day operations and who does the job. Many amateurs are very curious about FMTN and they, too, are given an opportunity to express themselves. We hear anecdotes, questions and many constructive compliments and constructive criticisms as well. A very pleasant meeting and FMTN wishes to congratulate the Jacksonville Amateurs for being courageous and implementing such a nice affair. Will be looking forward to next year in Jacksonville.

Billy Williams, N4UF will chair the meeting of FMTN at Melbourne while Jane and I visit New England.

FLORIDA PHONE TRAFFIC NET

By Bill, WB4WYG

Last month I said the summer slump was on — well this month it is really landing in great style. Wow! Not only traffic scarce but, check ins are also down. Of course, they are — with eleven stations on vacation there is good reason to be down. Not going to list 'em all — but hope you enjoy yours as much as we did ours.

Sure is very, very good to have W4KMN, John, back in Lake Placid after a stay in a Miami hospital. Stan, K4BLM, kept us in touch by using a two meter sked with John every night, and brought us news the next morning.

Would like to thank N4ET, Don, of Venice for his help as net control during the vacation period. There may have been a little confusion during the vacation period as to who NCS might be — but every session was covered without any delay. A great big WELL DONE to those stations that stepped forward during this period and carried the load. Would like to say more about these stalwart individuals that balance this load and without which a net managers job would be a nightmare. Thanks again for this cooperation.

Miss Evely, W4WYR, vice director, attended the board meeting in Seattle and has now returned to go fishing near Ft. Myers Beach. Hopefully, we may hear some of the happenings of the board meeting on ARRL information net Saturday mornings.

See you all at the Melbourne Hamfest and START YOUR HAM RADIO DAY THE FPTN WAY.

TOP TWENTY TRAFFICERS

By K4SCL and N4UF

1.	W3CUL	2924	11.	W4LX	288
2.	W3VR	704	12.	W4NFK	266
3.	W4MEE	646	13.	WD4DNC	247
4.	K4TH	562	14.	W4GPL	204
5.	WA4PFK	502	15.	WA4CRI	152
6.	WD4HIF	479	16.	W4IZ	144
7.	WD4AWN	389	17.	N4WA	134
8.	K4SCL	334	18.	WA4EYU	134
9.	N4PL	305	19.	WB4AID	130
10.	WB4FVV	304	20.	WB4PIB	96

TRAFFIC HOUNDS

By K4SCL

NET	QNI	AVG.	QTC	AVG.	SES	MANAGER
FMTN	1307	42.2	674	21.7	31	WB4AID
GN	470	15.2	579	18.7	31	W4MEE
QFN	853	13.8	483	7.8	62	WA4PFK
TPTN	625	20.8	304	9.8	31	WD4AWN
FPTN	887	28.6	251	8.1	31	WB4WYG
FAST	777	12.5	208	3.5	62	WB4FVV
SWFTN	434	16.1	177	6.6	27	WA4HXU
FPON	527	17.0	138	4.5	31	WB4GCK
QFNS	338	10.6	94	2.9	32	WD4DNC
NFPN	1067	34.4	82	2.6	31	N4BZH
VEN	426	13.7	58	1.8	31	WA4CRI
SPARC	1032	33.3	54	1.7	31	K5IHH
PEN/RACES	241	7.5	35	1.1	32	W4GPL
DEN	165	33.0	24	4.8	5	WB1AAZ
MEN	172	34.5	16	3.2	5	WB4PIB
BEN	80	16.2	15	3.0	5	WA4ZIE
GCTN	26	6.5	14	3.5	4	W4NFK
PBTN	360	17.1	8	0.4	21	WB4NJU
DBTN	16	5.3	6	2.0	3	WA4CRI
AFEN	102	25.5	4	1.0	4	K4SJA

QFN

By Dick Hill, WARPKF

For those of you who haven't heard — it is with deep sorrow that I inform you, Whee, W4LDM, became a silent key in July. He will be missed.

The QFN breakfast and meeting in Jacksonville was great fun! It was a lively meeting — much discussion of net business and technical topics — more on this in the bulletin. Ed, N4EC came in second in the left foot CW contest — Ted, N4TW also was in the contest. Ed and his son also made a "leisurely" trip from Gainesville over to Jacksonville on his motorcycle for the breakfast Sunday morning — an hour and five mintues with time out for his son to put his jacket on — there are some that say you send CW like that too, Ed — hi. Jacksonville was great — first time for me — now everyone is talking about Melbourne. My understanding is that there will be a bang up QFN breakfast, with George, K4TH doing the setting up. Enjoyed seeing so many in Jax and hope to see you in Melbourne.

QFN 3651 KHz 7:00 and 10:00 p.m. daily.

	SUNDAY	MONDAY	TUESDAY	WEDNESDAY
NCS	WB4NCH	N4WA	WA4HDH	K4SCL
4RN	N4EC	K4SCL	K4ZK	WD4AWN
RN5	W4MEE	W4JL	W4NFK/W4MEE	W4KIX
	THURSDAY	**FRIDAY**	**SATURDAY**	
	W4NFK/KB4T	N4EC	W4MEE	
	W4MEE	N4WA	WD4DNC	
	W4KIX	K4ZK	N4ET	

NOTICE: When sending in HAMBARS, always give YOUR CALL SIGN. We have had reports of non-licensed persons selling stolden amateur equipment via this column, AND WE DON'T WANNA DO THAT!!! Editor

BE ON THE LOOK-OUT.

Beginning in August I am spending a month or so in "OZ" land and hope to work the U.S. on ten meters from various locations around Denmark with old cronies, and I do mean oldr. . . Really, I am going over to celebrate my 80th birthday. "Skoal til de Forenede Stater." 73 Bert Berthelsen, Ormond Beach, FL.

A VITAL COMMUNICATIONS LINK

A vital communications link was provided by Amateur Radio when Jacksonville fire units assisting at a giant oil tank fire in nearby Hilliard found themselves out of range of their base station. WD4BII hearing the problem on his fire department radio, recruited WA4DUD and joined the fire crews on the scene. The two used the Callahan 40/00 repeater, with WD4BIW patching into fire central, to reunite the Jacksonville firemen with their department and facilitate operations.

The Amateur linkup received fine coverage on prime time TV newscasts and strong praise from fire and public safety officials who've asked to meet with local ARES leaders in the near future to work on an agreement for Amateur assistance in future emergencies. (Thanks NOFARS BALANCE MODULATOR and HR REPORT.)

TAMPA A.R.C., W4DUG/4 went all out for FD this year. Here WA4YRW operates (r) while TARC Pres WD4APM logs, Del McAlister chases misquitos and a YL watches. DUG's claimed score is 4158. Have you sent in yours?? (Photo by WA4SWW)

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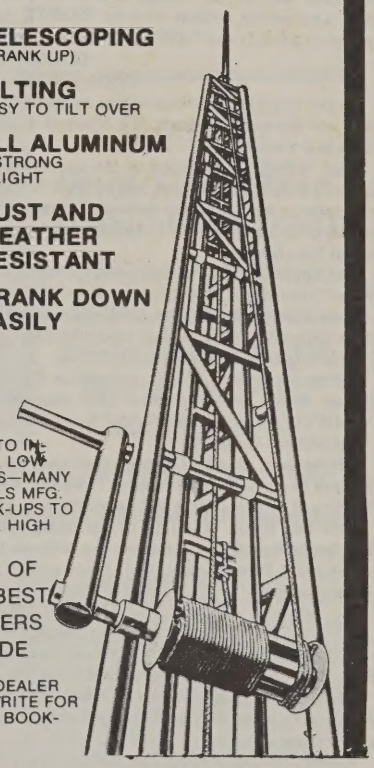

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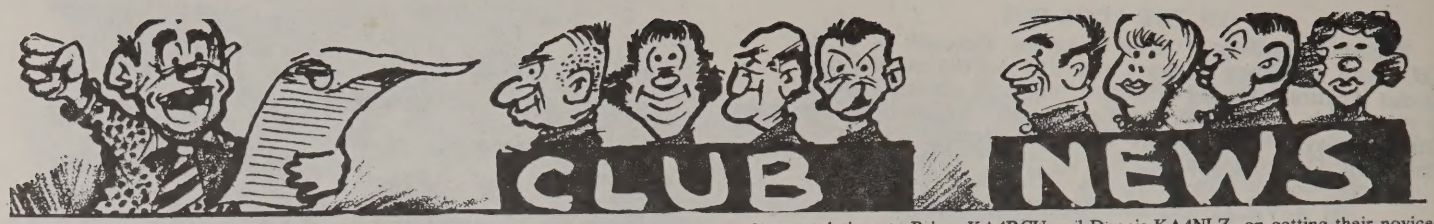

NORTHERN FLORIDA NEWS

By Billy Williams, N4UF

James S. Walter, WA2GIN is SEC. Jims QTH is 3525 Wellington Road, Pensacola, Florida 32504. Remember to send him your SET messages.

WRIZ club station active sending traffic from Jax Hamfest with W4JL, WB4DTS and WB4HRG operating. W4KIX active on RN5 for QFN. KB4T passed Radar Endorsement for his first class FCC Phone Examine. Hogtown Hammers claiming 11K in FD 80. FB score! BARS now meets at Sea Episcopal Church.

WA4EYU won NOFARS message contest. Jax Hamfest at OP Kennel Club very successful with over 3,000 in attendance. Interesting traffic forum on "Tricks of the Trade" with N4WA, K4SCL and K4TH who were guests. DBARA upgrading 75/15 repeater system. New officers of ACARC (St. Augustine) are WA4EYY, KA4HHV, WD4MJS and WB4WXW. They expect a club repeater on soon. OPARC repeater call now WB4CGD/R.

RANGE implementing new computerized autopatch through efforts of KB4B, WD4BIW and N4AEE. WD4HOV and KZ4L. Very sorry to learn that W4LDM is a silent key. Eleven hams from TARS involved in emergency drill under Leon County. EX KC4N. East Pasco County ARES Net now meets Monday through Friday on 28/88 repeater.

Brooksville repeater doing fine job on 146.115/715. W4UEA and WD4IED finished work on new emergency plan for Marion County. FMTN now handling DNTS transmit functions and TPTN acting as receive outlet. KA4HDI is new EC-Lake County. NOFARS pileup contest won by WD4ITK and KA4GVK. New OES appointments issued to KB4LD and N4BFX. Thanks for the great support I am receiving.

IRARC NEWS

By Jim Kneeland, W4MFH

At the July 22nd meeting, it was announced that WB4ZXS, John McDonald and his wife are the proud parents of a 5 pound 4 ounce girl. Everyone of the club extends their best wishes.

Mal, WB4HDX, reported on the upcoming NOVICE class which will be conducted in room E-125 at the Merritt Island High School starting on September 4th at 7:00 p.m. and running each Monday through Thursday until completion on December 11th. If a reader of this notice knows of a person who aspires to become a ham — let them know about this class.

Bill Eppley, W2SDB, conducted his regular door prize (or should I say "Attendance Prize?") drawing. Glenn Morgan, KA4MHT won the grand prize, a calculator.

Russ Forsyth, K4YS, reported on the latest advantures of Dale Strieter, W4QM via their daily CW QSOs. At last report he had arrived in Trinidad and was on the way to Port Everglades. Whither to next? Dale.

Glenn Daughton, W4FL, showed us Field Day slides of the recent event held in Cocoa Beach which showed club members hard at work. Was Bill Richards, WB4WYG, demonstrating a new way of keeping score or was he swapping palmetto bugs with his sneakers?

Merle Kuns, WA4GZB, presented a very interesting film depicting the tribal life of Indians living in Scuth America. This film was recently shown on National TV there. Merle will be going there and he promises to give us a later report on his trip.

Will Ben Bunn, W4GHU, be operating maritime mobile soon? We understand he has finally launched (and sunk) the sailboat that he has been so busy building these many years. It really didn't sink. Upon launching, he found a small leak in the keel and it was patched.

FLORIDORA YLS

By Cathy Soehl, W4BAV/ARNS

W4KZT, Lucile's OM, WRLDM, Wilford (better known as Whee) joined the Silent Keys, July 16th. Our heartfelt sympathy to you, Lucile.

W4BIL, Fran spent 3 weeks at W4AGG, John and Cathy Smith's QTH, taking care of their pets, while they made a trip north. Was good to hear Fran on the Net and she'll be on her rig at home.

K4KOH, Ernie, reports they had to have a new carport roof, due to damage from a recent storm.

W4WYR, Evelyn, ARRL vice director, was treated like a Queen when she attened the Board Meeting in Seattle, Washington, July 23-24th. As she is the first YSL on the Board, enjoyed her reign.

KA4DWG, Jo, finally got her 75-meter antenna up; checked into the Net, then they took off for a trip to Missouri for a visit with WA4WPW, Phil's mother. Stopped to attend "Ole Oprey", in Nashville, enjoying the various kinds of music. Operated a CB rig, converted to 10-meters, worked may different states.

WB4NYN, Mickey, we are glad to hear is checkinginto the 146.28/88 Net. (Wish I could break that Repeater. BAV.)

WA4IWM, Lou an OM, K4WR, Dale, left the middle of August for a 6-week trip north. Will attend the Antique Wireless Convention at Canandagua, in the Finger Lakes of New York. Happy trip, Folks!

K4RNS, Marge, received Certificate of Appreciation for participation in first Volusla County Skywarn Net.

SPARC & METRO CLUBS

By Marie Adams, KA4BBB

WA4TJG, Betty, has very interesting neighbors at her new home. I have a suspicion she really enjoys her four-legged friends. We really like the animal stories, Betty, especially the bunny and possum family who have taken up residence in gopher hole on your property.

Congratulations to Brian, KA4RCU and Dennis KA4NLZ, on getting their novice tickets. Carolyn, KA4NNG, is all time record holder for novice with 83 points in May, 1980 for Public Servicve Honor Roll.

Sparc had dinner gathering in New Port Richey August 23 at 7:00 p.m. at Skeeter's Restaurant. Know all who attended had a good time cause hams like to eat and talk. Bernie, KA4MWM, up-graded to tech license, good show Bernie. Hank, WA4WKO, is building a variable line filter for Bernie. Hank deserves the "Mr. Nice Guy" Award.

Five Sparc Club members made Public Service Honor Roll for Southern Florida: George, K4TH; Woody, K4SCL; John, WD4COL Leo, K8PXM; and Gary, N4AXN. Congratulations fellows, we're all proud of your accomplishments. Jack, N4DDJ, Largo, is DXing with Preston, WD4DDA, of Dunedin via a Titusville repeater on 146.91.

Bill, K4RHD is making remarkable recovery from a massive coronary. He is at home taking short walks, doing well and everyone is grateful that news is good. Dee, WA4TUM, fractured her wing while on vacation. She is doing well and hasn't missed a coffee break, yet. Linda, WA4HKP, is learning to pilot her new Kenwood 7625.

Phil, WB4ONC, all appreciate your great job as local weather man. Thanks to you, Phil, we're all better informed. Congrats to Nolan, W4VXF, up-graded to extra class this past month. Nolan is the "Body Beautiful" member of the illustrious Beach Boys Group. All interested in impromptu coffee breaks, listen on Metro and join the fun. Al, WA4PPW, announced he would like to be reincarnated as Zoro. He's always wanted to wear a black suit and carry a saber. Time goes by fast when we're having fun.

It's time for Metro to start the process for selection of officers for next year. The nominating committee: Charlotte, WB4PEL; Bill, K4RHD; Dayle, W4MUV; Bill, K4IJ; and Marie, KA4BBB. The summer is winding down and real exciting fall is coming in view. Have a nice Labor Day. 73's and 88's.

STATE QCWA NEWS

Edited by Eli Nannis, K4JMH

The QCWA President has appointed a Nominating Committee who will be charged with the responsibility of selecting eligible candidates for the offices of President, Vice President, Secretary, Treasurer and five Directors. Lew Sieck, K4NE was appointed chairman of the committee pending approval of the present officers and directors of QCWA. Your editor attended the Jacksonville Hamfest and had a very fine time. Many QCWA members were there and 35 members from many chapters attended a QCWA luncheon on Saturday, August 2nd. Gateway Chapter was the host for the luncheon and they did the usual good job.

GATEWAY CHAPTER: At the June meeting, 12 members and 4 guests attended. We are sorry to report that Bob Gray, W4UE is now a silent key. Oscar, K4DDY has moved to Hendersonville, North Carolina. Jim and Maxine Dixon gave a report of their visit to Sherm Lampl, K4IKS before his moving to St. Pete. Plans were made for what we would be doing at the Jacksonville Hamfest. At our July 19th meeting, we had 10 members and 4 guests. Jim and Maxine gave a report on their trip to National Federation of the Blind Convention in Minneapolis. W4LJL is a new member of the Gateway Chapter.

Reported by Jim Dixon, W4JL

HALIFAX CHAPTER: Our first formal meeting was held on July 12th for the purpose of election of permanent officers to serve until 1981 and the adoption of a Constitution and By-laws. The officers are: Chairman, Dick Frederick, N4PL; Vice Chairman, Bill Holdich, K4GL; and Secretary/Treasurer, Franke Fox, WB4WTJ. The 20 members present agreed to hold regular meetings quarterly and weekly informal "brunch" meetings on the 2nd Saturday of each month at a time and place to be decided upon. The Halifax Chapter net is open to all and will meet Saturdays at 11:00 a.m. on 3720KHz. It was agreed at the meeting that anyone affiliating with our chapter prior to August 15th will be a charter member. Currently, the chapter has 10 sponsoring members, 15 charter members and several applications en route shortly to National Headquarters to be processed. Write any officer for information about joining us. We think that we are on our way.

Reported by N4CBU, chairman

CITRUS CHAPTER: Our chapter met as usual at the Sweden House in Winter Park on July 19th with 42 members and guests present. Several national convention details were firmed up in addition to a splendid program. In reference the Luau at Seaworld,

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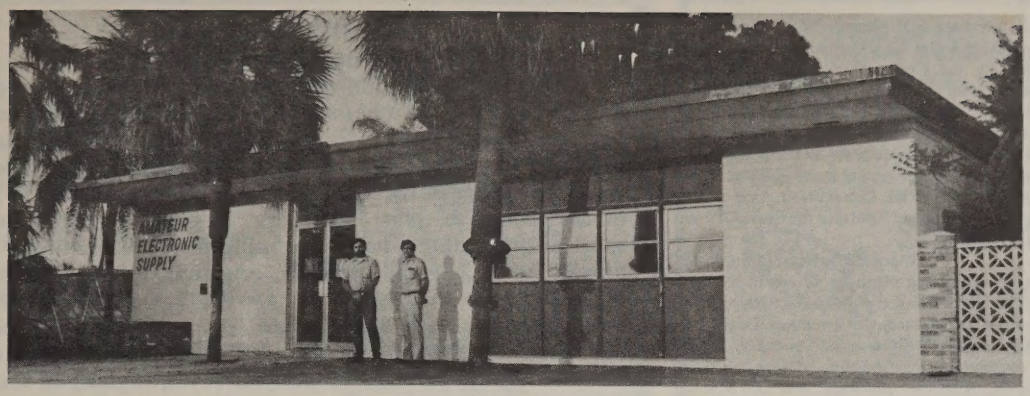

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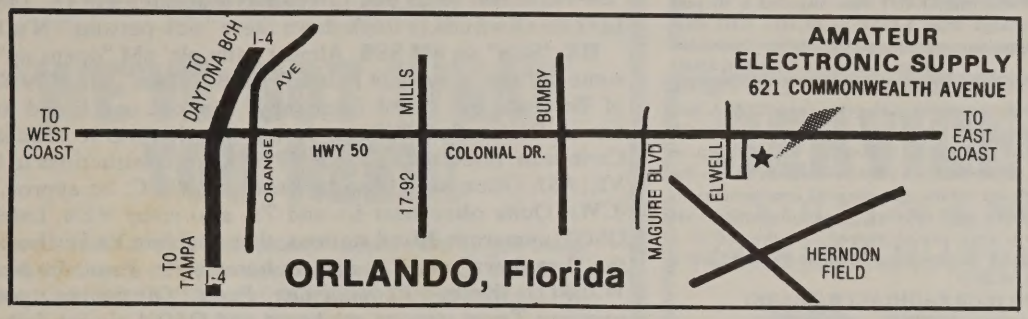

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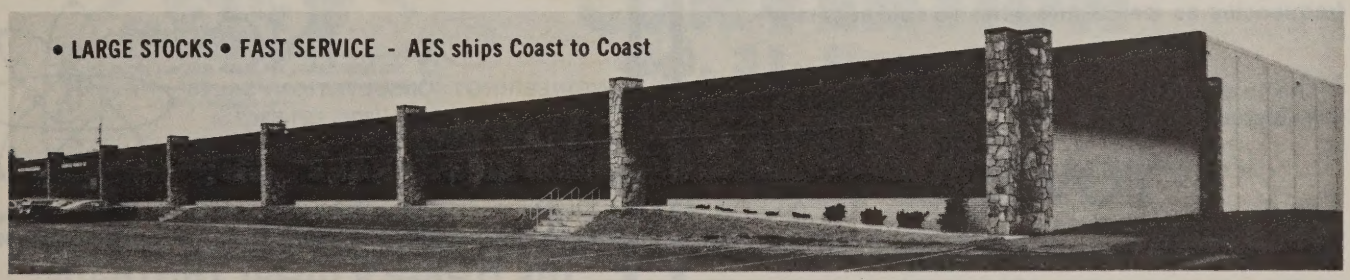

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it looks in doubt due to the very high cost. Alternate activities are being planned. In order to expedite ticket sales, it has been decided that all ticket sales, including the Saturday noon luncheons will be handled by the Convention Ticket Chairman, Chalmers Strombert. Hence, order all your tickets from him: Chalmers STrombert, Convention Ticket Chairman, c/o WDBO TV, P.O. Box 1833, Orlando, Florida 32802, phone: (305) 843-0006. (S.A.S.E. requested.) Prices as follows: Convention, $3.50; Ladies, $2.50; ($4.00 and $3.00 at the door). Luncheon $7.00 per person, Banquet $10.00 per person. Remember the Citrus Chapter repeater, 147.825/.225 will be operating and monitored during the QCWA and ARRL Convention. You are all invited to join us on the Citrus Net Saturday at 9:30 a.m. on 7290 and the State CW Net Wednesday afternoon at 1:30 p.m. on 7035.

Reported by Bill Waldo, W4PI

GATOR CHAPTER: We finally found a new meeting place so we are in business again. We will be meeting at teh Elks Club which is located at 3054 East BAy Drive, Largo. We will have unofficial meetings on the first Saturday of each month and our official meeting will start in October. Our chapter will have no luncheon at the Suncoast Convention due to the QCWA National Convention that falls on the same date. We welcome a new member, Virgil Lewis, W2NXW Hal Rice, W4FOM is in the hospital and should be out soon. Bob Wahlstrom, K4UY was awarded a 60 year certificate. Bob Wettengel has had call change from K4ESP to KC4JD. Karl Rau, W4FQU is now recovering from a broken hip.

Reported by Eli Nannis, K4JMH

SOUTHEAST FLORIDA CHAPTER: The July meeting was held at the Chateau Bleu Motel in Coral Gables. It was decided to proceed with plans for a QCWA luncheon during the Miami Hamboree. Last years luncheon was a big success. A resolution was passed to set up a committee to aid the widows of SK members in evaluating equipment to be sold. Several members have been involved in this in the past and it is a great help to the widows. We are setting up a car pool arrangement for the Orlando convention and we hope to make a good showing. Photos of members old stations and clippings of past ham events were passed around and this led to a discussion of old times. At the conclusion of the meeting everyone gathered for a group picture. Reported by Glenn Roof, W4KO

SOUTH HILLSBOREOUGH AMATEUR RADIO KLUB (SHARK)
By Evelyn Menkemeyer, WD4RFL

Nineteen! Members that is! A new club and already we are a growing, going places ham group. Our first program was presented by the Ruskin Emergency Rescue Squad who demonstrated the all important CPR technique. A special activities chairman was elected. He is Henry Menkemeyer, KC4BJ. Billy Ellsberry KA4DNR was asked to head up our special emergency net on Labor Day. Many members and guests offered help and equipment. This event promises to be exciting and informative for the public and all amateurs. We will be located in Thriftway Plaza in downtown Ruskin. We will offer emergency calls, promote interest and give first hand information to the public. Next meeting — last Wednesday of the month. Please join us.

33 73 88's

"VHF'ERS ROOST"
By Frank Shannon, K4GT

"Air-Vandals on 2M FM repeater." The permanent shut-down of another pioneer Southern California Repeater has been announced. The Palisades Radio Club 2M FM repeater has been taken off the air recently by a vote of the Directors, following a continued abuse of the "open" repeater by non-members. The use of foul language, plus "takeovers" by non-members who made sport of preventing others from using the repeater finally caused drastic move. This old repeater, originally WB6DDI, 146.01/.61 MHZ had been on air since the late 1960's — making it the fourth oldest repeater in U.S. This info was published in Naples FM Associations News Bulletin, also in HR Report No. 307. Actually, for quite a period of time, some "nit-wit" was guilty of same type "air-vandalism" over our Tampa Bay Repeater, KR4X, 146.16/76. Let's do all we can to track-down these "sick-persons"! N'uff Sed!!

DX "Skip" on 6M SSB. Almost daily ole' 6M "opens up" during some portion of each 24 hours. VP9IB, "Tom," and VP9WB, both of Bermuda are heard frequently. Worked our friend and well known DX'er, Bob Billings, during vacation-trip to Montserrat in Caribbean. Bob used call-sign VP2MX with instructions to QSL via VE1ASJ. Often hear Jamaica Beacon, 6Y5RC, on approx. 50.025 (CW). Quite often hear 6's and 7's, also many VE's. Lately have QSO'd numerous 3-land stations, thus enabling Ye Scribe to obtain the "low-down" and "up-up" on home state, Penn! In particular, W3IWO, "Herb," Phoenixville, Penn. Of course, good ole' southern Texas stations are heard and QSO'd almost daily. Some DX'ers are "breaking" into our Greater Tampa Bay area 6MSSB Medicare Net, daily at 9:30 AM EDST on 50.150 MHZ. WB2GKB, Rich, Hawthorne, N.J., was a "breaker." He and numerous others are active daily on their own "Weather Net" at 10:30 AM EDST, on 50.130 MHZ. This net includes members from New England and Middle Atlantic states such as WA2SJO and WA2DPJ, "Chappie," Long Island, N.Y.

QSY P. 12

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BREVARD REPEATER ASSN. Inc. WR4AFI, 28/88, Cocoa. 146.43/147.03 Cocoa Beach. Meets 1st Mon. 1930E 1st Nat. Bank, Merritt Isl. SR3 & 520. Mail: 1003 Woodsmere Pkwy, Rockledge, FL 32955.

BROWARD AMATEUR RADIO CLUB, Inc. W4AB, WR4ADU 146.31/91. 2nd Fri. ea month 745PM, Griffin Pk, 2901 SW 52 St. Ft. Lauderdale. Mail: Ken & Ruth Burg KA4AES-AEV, Co-Sectry, 2611 SW 58 Manor, Ft. Lauderdale, FL 33316 305 966-1880.

CLEARWATER AMATEUR RADIO SOCIETY, WB4BZF, meets 2nd & 4th Fri., 730PM Upper Pinellas County Red Cross, 624 Court St. Clearwater, FL. Mail: Box 6473, Clearwater, FL 33518.

COLLIER COUNTY AMATEUR RADIO. Meet 730PM, 3rd Tues. at Coast Federal Savings & Loan, 2400 N. Tamiami Trail. Mail: Al Simpson, 1131 Milano Dr., Naples, FL 33940.

DADE RADIO CLUB, Inc. W4NVU. Meets 1st & 3rd Tues. Museum of Science, 8PM, 3280 S. Miami Ave., Miami. Mail: P.O. Box 350045 Riverside Station, Miami, FL 33135.

DAYTONA BEACH AMATEUR RADIO ASSN., Inc. K4BV. Meets 8PM, 3rd Monday monthly, American Red Cross, 341 White St., Daytona Beach, FL. Come and bring a friend.

EVERGLADES AMATEUR RADIO CLUB, W4SVI. Meets 2nd Fri. each month 8PM at Dade County Agricultural Bldg., 18710 SW 288 St., Biscayne Dr. at Redland Rd., Homestead, FL 33030.

FELLOWSHIP AMATEUR RADIO CLUB! Meets3rd Tue. Osteopathic Hospital, 1750 NE 167th St., No. Miami Beach 730PM WA4QLQ/R 147.81/147.21. Mail: Box 680284, Miami, FL 33168. All welcome.

FLORIDA GULF COAST AMATEUR RADIO COUNCIL, Inc. P. O. Box 157, Clearwater, FL 33517.

FLORIDA REPEATER COUNCIL. Pres. K4BZS, VP WA4KKY, Tres. K4KE, Sec. K5FQG, Freq. Coordinator, Al Friend W4CF, 631 Lake Meggorie Blvd., St. Petersburg 33705. 813-866-2091 before 10PM.

FLORIDORA YL'S, W4FE. Pres. N4BZG, Sheila Smith, 1636 South Page Dr., Deltona, FL 32763. All Fla. YL's & XYL's are invited join. Net: Tues. 9AM, 3933 kHz. (See box ad for officers.)

FORT MYERS AMATEUR RADIO CLUB. Meet 1st Wed. ea month 730PM, 1st Fed. & Savings, 121 Pomdella Rd. SR78A, North Ft. Myers. Mail: Cash Luzny W4MPV, 4286 St. Clair Av. Ft. My. 33903

GAINESVILLE AMATEUR RADIO SOCIETY, Inc. K4DPZ, Meets 1st Tues. each month 730PM, C.W.A. Hall, 1949 NE 27 Ave., WR-4ACE/RPT, 146.22/.82 weekly net Sundays 830PM. Check in.

GOLD COAST FM ASSN. Inc., Box 313, Boca Raton, FL 33432. Emgcy net Thurs. 730PM. WR4ACV 146.22/82. Traders Net 8PM. WB4UFA/R meets 4th Mon. 730PM. Imperial Pt. Hosp. Med. Ctr. 6401 N. Federal Hwy., Ft. Lauderdale, FL. ALL WELCOME! !

GULF COAST AMATEUR RADIO CLUB. Meets 3rd Thurs. 730PM at SW Pasco Fire Dept. Hwy 595, Holiday, E. of US19. Repeater team meets 1st Mon. 8PM at Clearwater Fed & S&L Bank, Southgate shopping Center, New Port Richey. Mail Box 595, NPR 33552.

HILLSBOROUGH AMATEUR RADIO SOCIETY, Inc. WA4GJJ. Meet 4th Wed. 730PM Pan Am Bank Bldg., Sulfer Springs., Mail: P. O. Box 271003, Tampa, FL 33688 Phone for info 813-886-2666.

HOLLYWOOD AMATEUR RADIO CLUB. Meet 3rd Mon. 730PM., Washington Fed S&L Bldg. Rm. AB-450 N. Park Rd., Hollywood. Mail: Box 6306, Hollywood, FL 33021. WB4TON/R 146.385/985.

INDIAN RIVER AMATEUR RADIO CLUB. W4NLX. Meets 4th Tue. First National Bank, Merritt Isl., 730PM. Mail Box 5, Cocoa 32922.

JACKSONVILLE RANGE ASSN. K4YLX/R 146.16/76 & 146.28/88. Meet: 1st Tues. 730PM. Rm. 114 Jacksonville Univ. Mail: P. O. Box 10623, Jacksonville, Fl 32207. The Door opens wide.

KEY WEST AMATEUR RADIO CLUB. W4LLO/R 146.34/94. Meet 8PM, 2nd Tues. Sportsman Inn. No. Roosevelt Blvd. Mail: P.O. Box 2371, Key West, FL 33040. Phone 296-2723. Most southern R. C.

LAKE AMATEUR RADIO ASSN. Inc. K4FC. Meets 1st & 3rd Thurs. 8PM clubhouse, Springdale Ave. Bassville Park: Mail: c/o J. Tolliver KA4HDH, 1310 W. No. Blvd., Leesburg, FL 32748 753-4585.

MANTEE AMATEUR RADIO CLUB. Meets 4th Mon. 730PM each month, Red Cross, 2905 59th St. W. Club call K4GG, memory Earl Dannals. Mail: P.O. Box 9485, Bradenton, FL 33506.

MAVERICK REPEATER ASSOCIATION. 147.945/147.345 and 146.370/146.970 with 10 mtr link input 29,540/29,640 output and two meter link in New York on 144.850/145.450. Inquires welcome from General Class license holders and above. Call 305 596-6970 or 305 552-0881, Miami.

NORTH FLORIDA AMATEUR RADIO SOCIETY, W4IZ. Meet 2nd Thurs. 730PM Ist Presbyterian Church, Ocean & Monroe St., Jax. Mail: Ed Palagyi WB4QVK, 176 Tallulah Ave., Jacksonville, FL32208

OLD OLD TIMERS CLUB (OOTC). Florida Chapter. Net meets ea. Sunday 2PM on 7247kHz. Info from: Herb Spitz, WA4UOE, 340 SW 64th Way. Pembroke Pines, FL 33023.

ORLANDO AMATEUR RADIO CLUB. W4PLB 146.22/82, 146.16/76. Meets 3rd Wed. ea. month, 1st Fed S&L Community Rm. Edgewater Dr. 730PM. Info Donald P. Allgor KC4DU, 305-298-6656 or P O. Box 7367, Orlando, FL 32854. All welcome any time.

PLATINUM COAST AMATEUR RADIO SOCIETY. Meet 2nd Mon. ea, month, Red Cross Bldg., 1150 S. Hickory St., Melbourne. Mail: Box 1004, Melbourne, FL 32901. Repeater: WR4AMJ 146.25/85.

PLAYGROUND AMATEUR RADIO CLUB, W4ZBB. Meets 1st & 3rd Thurs. 730PM, clubhouse on 1st St., Ft. Walton Bch. Mail: P.O. Box 873, Ft. Walton Bch., FL 32548 WR4ABZ on 146.19/79.

QCWA CALOOSA CHAPTER. Luncheons last Wed. ea. month 1130 AM. Twistys Restaurant, Cape Coral. Left at light a west end Cape Coral bridge. Info: D. Bowman, W4OUU, 5317 Colonade Ct., Cape Coral, FL 33904 Phone 813-542-4656.

QCWA CENTRAL FLORIDA CHAPTER. Meets 2nd Sat. Noon Sept. thru May at Hilton Inn, I-4 & US98 in Lakeland. Net Sat. 1000AM 7240. Info: Jim Gundry W4JM, Pres. 813 644-3435.

QCWA CITRUS CHAPTER Meet 3rd Sat. Sweden House, Lee Rd., in Winter Park, 1130AM. Chrmn K. Street G3DKS/W4; K4KHP, R. Reisinger V. Chmn. Bill Waldo W4PI, Secty. Bob Ragsdale, W4AJX Tres. Net 930AM Sat. 7290 kHz. Join us on net.

QCWA EVERGLADES CHAPTER. Meet last Sat. Sept. thru April Sweden House, 5550 N. Fed. Hwy., Ft. Lauderdale, Info see SKIP news or call Roy McCarty W9KA, 305 731-4145.

QCWA FLORALA CHAPTER. Meets Noon 2nd Sat. ea. mo. at Fat Boy's BAR-B-Q near Ft. Walton Bch Fairgrounds. Pres. WA4IWW, Sec-Tre. W4MMW, John Lakin, 10 Linwood Rd NW., Ft. W.Bch 32548.

QCWA GATEWAY CHAPTER. Net Sat. 11AM, 7230. Luncheons 3rd Sat. Uncle Johns Pancake House, Bch Blvd. Jax. Pres. K4SP, VP/NCS W2KGI, Info: Jim Dixon W4JL, 39 E. 59th St., Jax, FL 32208.

QCWA GATOR CHAPTER. Tampa Bay area. Meets 1st Sat. Noon Sweden House, Clearwater, Hwy 60, Gulf-to-Bay. Weekly net Sat 930 AM 3920. Eli Nannis K4JMH, Elks Club, 3064 East Bay Dr. Largo.

QCWA PALM BEACH CHAPTER. Meet 1130AM, 4th Tue. Sweden House. N. Palm Beach. El Hermanson W4CQL, Sec/Tres. 8031 Pine Tree La., Lake Clarke Shores, FL 33406. Phone 305 582-7704.

QCWA SOUTHEAST CHAPTER. Meet 3rd Sat of odd numbered months. Noon, Chateau Bleu, 1111 Ponce de Leon, Coral Gables, FL. Net: 146.94 Weds. 9PM. Info: W4KO, W4KGJ or K4BLM.

From the Desk of No. 1 SMIRK. K5ZMS, Ray Clark, SMIRK No. 1, recently mailed out Bulletin No. 24, dated 10 July '80. It is chock-full of 6M news! He states membership now 3,795 throughout all U.S. plus 55 foreign countries! K4CKS is now the 8th holder of a certificate for having worked 1,000 other SMIRK members. **Remember, members must furnish Ray S.A.S.E., in advance, in order to receive bulletins.** SMIRK is accepting donations of your discarded 6M gear which will be shipped to needy hams in overseas locations. In numerous donations, you gear will result in a **new country!** In case you need K5ZMS mail address — Ray Clark, 7158 Stone Fence Drive, San Antonio, Texas 78227.

Another Beacon Heard. 11JULY heard beacon, WA8ONQ (CW) on approx. 50.080 MHZ.

Famous Ex-FCC Retiree, W1AE. George Sterling of Maine celebrated his 85th birthday recently. George usually "winters" in Sarasota area. Ye Scribe still owns complete set of George's well known "Radio Manual" publications. These books were our source of info in the earlier days of "wireless."

Welcome to N4APC, New on 6SSB. Bob, Sebring, is really exercising his recently acquired 625RD 6M transceiver pumping into a new KLM beam. In short time of three weeks, Bob has worked 24 states. He, on occasions, checks into the Medicare Net, 50.150 MHZ, 9:30 AM EDST daily. Again, Bob, glad to have you with us!

Contributer, Joe Picior, WB4OSN. Although Joe has not written for inclusion in this column, for quite awhile, we had QSO on 6M CW, July 26th. **Again, Fellas, this column can use your letters in order to better Florida coverage!! C'mon, give!**

C.U. next Skip — tell a friend about "Florida Skip"!

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WHEN HAM RADIO BEGINS TO GET DULL

By Dick AAR4PP Army MARS

You've got about one and a half kilobucks worth of steel tower, aluminum beam, and pretty painted boxes covered with knobs and dials. When you bought the stuff, you told yourself it would earn its keep forever, providing recreation, enlightenment, and conversation with strangers that your gear would transform into friendly neighbors.

And now you wonder . . . You've logged your thousandth signal report, your five hundredth weather report, and your hundredth termination because some slob with a Manhattan Megawatt decided to tune up his final on the frequency you were using. The old shack doesn't draw you the way it used to. QSL cards don't seem to prove anything anymore, except that your rig is just as good as Marconi's was in 1911, when he demonstrated that he could work the world with it. Maybe it's come time to move on to something else. Maybe it's time to take up square-dancing. Maybe it's time to trade the whole rig in on . . . well . . . almost anything. Maybe that's right.

Or . . . maybe it's dead wrong. Maybe you aren't getting anything out of operating because you aren't giving anything. Maybe the fun isn't there, because the pride isn't there . . . pride not just in accomplishing something but pride in accomplishing something for someone else.

There's one easy way to find out. Tune in to 4.035 LSB at 6 p.m., or 4.025 at 7 p.m. During the afternoon and evening, check 20.975 LSB and 14.402 USB. Listen. Listen to the MARS operators who rightly **know** that their Country is benefitting from their services and rightly know **why.** If you feel that this kind of operation is what you need, because it fills somebody else's need, talk to a friend in MARS. He'll guide you from there.

TWO DEATHS - ST. HELENS

The Mount St. Helens volcanic eruption death toll now includes two Amateurs among the confirmed dead. Gerald Morton, W6TQF, and Reid Blackburn, KA7AMF. Thanks W7CKZ via Westlink. (HR REPORT.)

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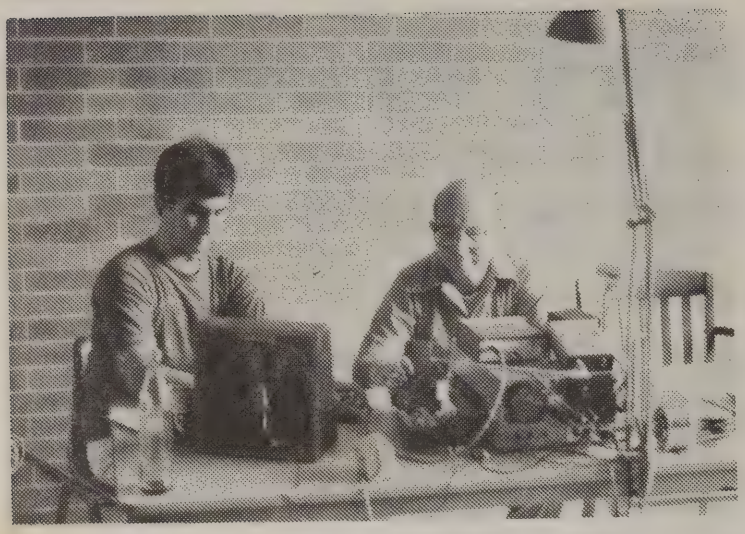

NOFARS of Jax, FL. W4IZ, who is sponsoring the BIG FD Trophy for best-out-of-years, racked up 30,037 QSOs in category 6A. Total points 8,516 plus 1000 bonus points added on at ARRL. Here N4DHM (L) and N4BFX newly appointed Disaster Services Chairman for Red Cross for N. Florida, rack up 40 meter points. Tom Castiglia N4BFX is also Pres. of the Jax RANGE Assn. (Photo via N4UF)

EXPERIMENTAL - KF2XHE

General Motors has been granted an FCC license to build and operate an experimental radio station, KF2XHE, on various discrete frequencies between 1.8 and 470 MHz. It's to be used to determine the susceptibility of automotive electronic systems to electro-magnetic radiation, an area in which Amateur Radio has caused problems with poorly designed electronic ignition and braking. (HR Report /5/9/80)

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QCWA SUNCOAST CHAPTER. From Tampa so to Marco Isl. Meet at Daveys Locker Rm. of Windjammer Rest., 7100 S. Trail US 41 1st Wed. ea. mo. Oct. thru May. Info: W. Blaksee 953-7616.

QCWA SWANNEE CHAPTER. Net Sat. 3940, 9AM. Pres. C.Coleman K4WJ, VP, E. Cain W1LFE, Sec/tres. H. Carpenter K4JTJ. 815 Hemlock St., Inverness, FL 32650 Phone 904 726-7497.

QCWA TREASURE COAST CHAPTER. Chmn I. Roach K4QM, Sec-Tres. G. Russell KB4OC. Lunch 2nd Thurs. at Sheraton Regency. No. A1A. Vero Beach. Mail: P.O. Box 3088, Vero Beach, Fl 32960.

SARASOTA AMATEUR RADIO ASSN., Inc. W4IE. Meets 3rd Tues. 8PM Rm. A-9, Sarasota Jr. Hi School. Sarasota Hamfest 3rd weekend each Jan. Mail: P.O. Box 3182, Sarasota, FL 33578.

SOCIEDAD INTERNACIONAL DE RADIO AFICIONADOS, Inc. WB4ESB & WB4ESB/R 147.90/30. Mail Box 524071, Miami 33152. Tfc Net 14300 Sat & Sun. 9-11AM. Emgcy net 14205 & 147.510. Info & drill net Tues 9PM thru repeater.

SOCIETY OF WIRELESS PIONEERS (SWOP) EDISON CHAPTER. Meet Sun. 2PM 7053 kHz. Bill K4TF, CHOP. Info about SWOP: Bill Willmont K4TF, 1630 Venus St., Merritt Isl., FL 32952 or net.

SOUTH FLORIDA FM ASSN. WB4MCK/R 146.16/76 & KB4KW/R 146.40/147.00. P.O.Box 430025 Miami, FL 33143. Meet 1st Mon. Place rotates. Call Judy WD4PMK 226-9272 day or 233-9733 eves.

ST. PETERSBURG AMATEUR RADIO CLUB, Inc. W4GAC. Meets 8PM 1st Fri., Red Cross Hq. 818-4th St., Mail Box 4026., St. Petersburg, FL 33731. All amateurs welcome. Bring a friend.

TAMPA AMATEUR RADIO CLUB, Inc. W4DUG. Meets 1st & 3rd Mon. 730PM at Club House, Davis Isle. Columbia & Barbados. Mail: 2301 Scammell Ct., Apt. 1042, Tampa, FL 33612.

TEN-TEN INTERNATIONAL NET. Central FL Cypress Chapter, meets Wed 8PM on 28,665. K4TSY Chapter Head. For Cypress certificate work 5 holders, send log info & $1. to Bob Lucus, K4HTU, RD2 Box 2630, St. Cloud, FL 32769.

WEST PALM BEACH AMATEUR RADIO CLUB, Inc. W4HAW, Box 6834, Southboro Station, W. Palm Bch 33405. Meet: 1st Wed. 730 PM, 823 Newark St., W.P.B. Phone 588-1148.

ZEPHYRHILLS AREA AMATEUR RADIO CLUB. Meet 1st Thurs. 730PM, Fed S&L, 816 - 5th Ave. ZAARC net ea. Tue. 9PM 28950/28150. Mail: 6004 Hamster Dr. Zephyrhills, FL 33599.

DISTRESS CALL ON TWENTY METERS

A Distress call from Hurricane Allen's path brought Amatuers from throughout the Americas to 14,300 kHz late Tuesday afternoon. Identifying himself as being on the 23 foot boat Pearl of Haiti, with three of the six people on goard dead, the operator gave his position as being south of Port-au-Prince, Haiti. Despite another vessel, the Norse Viking, reported in the vicinity, and DFing efforts by FCC in Kingsville and Atlanta, the Pearl of Haiti could not be located, and transmissions ceased before 2300Z. Attempts to find registration information on either of the two vessels involved have not, at press time, been successful.(HR Report)

VP5 TURKS AND CAICOS

By Ham, W4ZR

One feature of this operation which was unusual was the six meter operation signing by call VP5AA, Harvey Crane WD4IYS, made a total of 805 QSOs with 543 during the VHF contests. These included PJ2, FM7, YV5, KV4 and KP4. For 6 meter contacts QSL only to WD4IYS.

Another attraction, the fine CW operation of VP5JAX by JA3ODC. Working 15, 20 and 40 c.w. all night long every night, Masato Hata made approximately 5000 c.w. QSOs with hundreds of JAs in there. QSL VP5JAX only via JA2VUP.

Masa, JA3ODC, will return to Japan in August. He holds KC4BH, and is extra class here.

VP5WPX, Walt, Home call WD4AUU supplied many "on request schedules, with 5 banders for that special mode and for band someone needed. For VP5WPX QSL only via WD4AUU.

And I managed 1100 QSOs on 15 meter SSB during the day, while Masa was sleeping. QSO with VP5AA on 15 SSB only should go to my home call W4ZR.

For those who might be interested, we were on the Island of Providenciales.

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NAVY MARINE CORPS MARS SOUTH FLA.

By Jim Wilson NNN0WCK/W4GDK

About a year ago three of our So. Fla. MARS stations took over two phone patch nets. These stations were YBU, XPQ and WCK. We were each assigned a hitch on the nets. All would have been fine if it were not fir rig trouble both YBU and WCK had. This trouble was so restrictive that it threw almost full responsibility onto XPQ. He carried on in heroic style. He alone seemed able to bring in patches from Augsburg, Germany and WCK could not make his patch work to Caicos Island because of a conflict with his new solid state exciter. The trouble will be fixed in about a week.

Bill Noel NNN0UTE of Loxahatchee (west of Palm Beach) checked in on our afternoon traffic net. When asked by Area Coord. Harry Ide if he had been sick, or where he had been, Bill replied, "On June 26 lightning struck the wiring in our house and did thousands of dollars of damage to our radio equipment." That was the reason they had not been able to get on the air. Most important to you "Mr. Ham" is that this equipment was insured, except for a small deductible amount so Bill & Trudy (UTE) didn't have to take a big loss.

Our hardworking "Editor" YWE promises that with his next bulletin he will have a new Roster. This will help greatly.

Our boys on TT are doing a tremendous job trying to copy traffic thru static a foot deep. We salute them as very loyal.

We are glad that EPQ of Lakeland is able to bring Bess home and get on the air again. He is working hard on the Emergency Program.

The Broward County gang are hoping the MARS repeater now on the new frequencies can soon have its antenna back up on its 280 ft. perch so we can reactivate our VHF network.

NAVY/MARINE CORPS MARS NORTH FLORIDA

By Jim Robinson, NNN0VYI/WB4RIS

Three Jacksonville area members (YTD, QQX, and VYI) are building a two meter repeater. The repeater is to be portable and battery powered. It is to be used with the Art in the Jax area. After the portable machine is operational another one will be built that will be placed in a fixed location.

YTD is presently working on the COR for the machine and QQX and VYI are working on the Duplexer system.

As is this a big project with many problems any help that can be given will be appreciated.

Congrats to Butch, QQX and XYL Jan on the two boys that they adopted. They should keep Butch and Jan busy for a while!

Hurricane season is here for sure. At this time Hurracane Allen is in progress. All stations should ckeck their equipment and hurricane supplies. Let's not get caught short this year.

The U.S.C.G. Aux. in Orlando has been given the call sign NNN0YFV-T.

USAF MARS (STATEWIDE)

By George Hamilton Jr. KA4ARZ/AFA2NV
Florida PAC

The summer has proven to be an interesting one. Two events in July are worth noting. AFB2GY, Apopka is to be complimented on the excellent work done conducting an emergency exercise on the 4th weekend. With most members away she came up with an impressive list of stations capable of mounting the excercise.

On his way with his family to visit AFF2D in Punta Gorda on the 4th eve, AFF2C's car broke down in Orlando. Thanks to a VHF call to AFA2UW he was able to get a tow and a motel for the night while repairs were made and then continue to AFF2D's home.

Coming back from Punta Gorda AFF2C had brunch with the Orlando group and briefed them on the coming changes in USAF MARS. We appreciated his stopping and the pleasure of meeting his family.

As of July 16th all MARS personnel have two years to upgrade from Novice. New members will have one year to upgrade from Novice.

AGA2LA has advise they expect to have new antenna next month which will enable them to cover Region 2 more adequately. AFF2T's son, age 14 will soon join the USAF MARS group in Florida. Congratulations.

There is an excellent article in the current Temple University Alumni Review on the critical situation, education-wise, in the Armed Forces.

TWO METERS GOES TO DOGS

Geo Thurston, W4MLE

When John Grubbs, of Perry, found a cute half-grown dachshund with a mystified look, he figured it must have escaped from a passing car on near-by U.S. 19. His only identification was a 1979 rabies vaccination tag from the Eglin AF Base veterinarian.

Grubbs' son, Henry, K4UTY, radioed the tag number to Eglin via W4MLE on two meters, thence to WN4IIV on two, to Eglin via AF MARS. The reply, via MARS to WB4LNO, Monticello, to K4UTY on two, identified the owners as a retired AF couple living hardly a block from the elder Grubbs.

They were tickled out of their skins to get their pup back and Henry's father collected the small reward they had already offered for its return.

NOTE OF THANKS

Thanks for a great job. Without your help many people in the islands would not have received our warnings. We look forward to working with you during future hurricanes. 73, Dr. Neil Frank, Director, National Hurricane Center, Miami, Florida.

Note: Dade Co. ARPSC installed and manned a 20 & 2 meter station in NHC for 7 days. See front page story.

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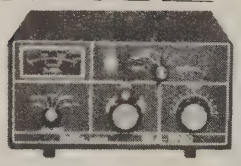

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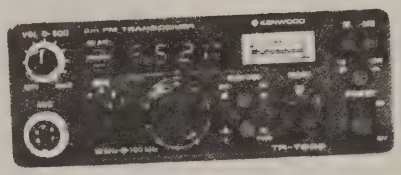
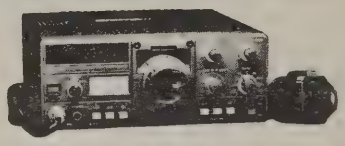
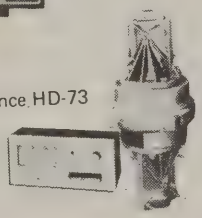
1 KW DC INPUT!
1200 W. PEP!



TR-7625 2m FM Transceiver.



KENWOOD TS 120S



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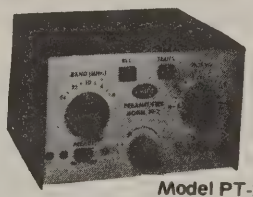
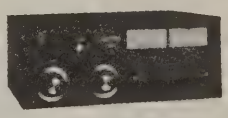


Model PT-2

ALPHA



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THE BOY WHO LOVED HAM RADIO

By Gerald Samkofsky, N4ZB

Today, any father of a young man would take great pride in seeing his son obtain an amateur radio license. Once, the dad of an enterprising young man actually asked the then Federal Radio Commission to revoke his son's license!!!

The date was October 21st, 1927. Millions of people opened their morning copy of the New York Times. There in glaring headlines read, "Eric Palmer, Jr's. Radio License Suspended!"

Young Eric lived in Brooklyn, New York in those days of early radio. Wisely knowing that this science would grow into a mighty giant, he spent every moment possible either building equipment or speaking to other hams across the country. Came a time that his fascination for radio was so great that he started to neglect his normal schoolwork and possibly might have lost some time from school too. Also, staying up nights to work some DX his health started to fail. Eric's dad tried tt reason with young Eric but to no avail. Finally in desperation Mr. Palmer wrote a letter to Admiral Bullard the then head of the Federal Radio Commission asking that young Eric's license be suspended. Admiral Bullard agreed to this request and along with the letter of suspension he included his own feelings that he was proud of young Eric's love for radio but that he should not neglect his normal education needs.

Eric Jr. argued against the suspension and soon various factions formed pro and con. The New York Times learned of this situation and decided it was important to include in their front pages.

Finally Eric Jr. agreed to spend less time with ham radio and attend classes at a radio school. Even here he was something of a maverick and it seemed that he would never be a success but future events were to prove this wrong.

Still a young man, Eric joined the "Trader Horn" expedition which was trying to locate the lost Colonel Fawcett expedition in the tremendous Matto Grasso jungle in Brazil . . . his position . . . that of Radio Operator! Indeed Eric was "The Boy Who Loved Ham Radio!"

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Vertical Antennas **DX with W4MB**

Among the DX stations I work, the Vertical is the second most popular antenna. The Major reason for this popularity is lack of space, and appearance. A vertical may be the only possible antenna.

In the USA, the Vertical is not nearly so popular for HF DX — the usual charge is that it works equally poorly in all directions. But it is used, even though it doesn't discriminate against QRM. Its especially useful for nets. A trap vertical is the easy way to go.

At MF, where size is a problem, the Vertical is far more popular. And, of course, on VHF the vertical is universal for mobiles, even though ignition noise is mostly vertically polarized.

A good many vertical antennas must be short, that is, less than a quarter wave length high. For these, there is a dominant factor to consider, one which is more important than exact height, method of construction or feed. This is the ground, or specifically, the ground resistance. It must be low. A single pipe ground may have a resistance of 50 obms. Used with a half-ohm antenna, ninety percent of the power is wasted — four S-units loss.

The ground must be good. A large sheet of metal is ideal (a mobile home roof?). Or use many radials — 16 to 64, at least; more would be better. See the articles in QST.

With the ground resistance lowered, we can look at the next problem, the need to cancel the reactance. This takes a loading coil. Its loss is also a waste. So we want the antenna reactance to be low. Large diameter helps, as does a top hat, and center or top loading. A tower isn't at all bad — it has a large effective diameter, and the beam is automatically a top loading element.

Special verticals can be insulated from ground, and center fed. A useful trick is to cancel the reactance, measure the resistance, then use a 2:1 or 3:1 transformer to bring this to a reasonable feed value. See the handbooks for various matching networks.

Towers can't use this method easily. For these, the best approach is a gamma match. Put a tube some 10 to 20 feet long about 4 inches from one leg, add a movable jumper strap to the leg, and adjust a series capacitor for zero reactance. If it doesn't want to come to 50 ohms, try for 12.5, and use a transformer.

Separate gamma matches can be added for other bands. Its no problem to get set for night time winter DX on 40, 80 or even 160 meters.

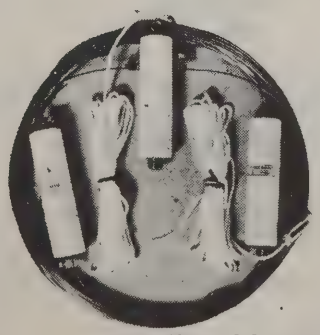
Just don't forget the radials.

SOUTHEAST QCWA Chapter taken after the July lunchon meeting in Coral Gables: K4IY, W4AQM, K4HQH, W4IYT, W4SQG, K4KQ (Chrmn), W4BTM, W4KGJ (V-Chrmn), W4-AZJ, W4WYR (ARRL SE Vice Dir.), W4P?. K4BLM and W4DTJ. See SKIP Directory for meeting notices.(Photo by W4KO Secty.)

BASSETT HELIUM TRAP ANTENNAS

BASSETT HELIUM MOBILE ANTENNAS

The result of nearly two years of continuous development and nearly fifty years of amateur and commercial antenna design and manufacture Bassett helium filled antennas are for the amateur who demands the very best in American made automatic bandchange systems and mobile antennas that are compatible with all transceivers including the new "no tune"units. Trap systems are fundamental dipoles on each band and do not require antenna tuners.



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VAC-40 --- $39.50 VAC-75 --- $42.50

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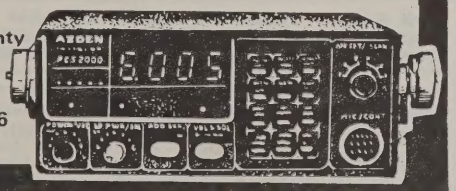


ANTENNA LIMITS

Preemption of antenna limits by the Federal government, thus barring local communities from zoning or appearance ordinances against Amateur antennas, has been proposed by Personal Communications Foundation President N6AHU in Seattle. Speaking at a SEANARC 80 seminar,Joe suggested that such a preemption could be made part of the Communication Act rewrite and thus relax antenna limits for Amateurs to those of the FAA and FCC.

In his SEANARC Presentation, Joe also urged the ARRL to take a leadership position as a political activist in matters like this. (From HR REPORT 8/8/80)

SIMULATED EMERGENCY TEST

The Annual Simulated Emergency test, sponsored by ARRL, has been rescheduled from early October to the third weekend in October this year the 18th and 19th. This adjustment avoids conflicts with several other early October events and with the Canadian Thanksgiving celebration. Individual groups may, of course hold their SETs on any two-day period between September 1 and October 31. (HR REPORT)

HAMBAR SERVICE of electronic equipment ONLY, will be available to all our subscribers, amateur and non-amateur at the rate of 5cents per word. Min. charge $1.00. Commercial and non-subscriber rate is 10 cents per word. Min. charge $2.00 No ad will be published unless accompanied by full remittance! We require all HAMBAR ads contain full mailing address, call sign and ZIP number, area/phone number, if any. Make it EASY for person wanting to buy YOUR equipment to reach you. NO HAMBARS via telephone! COMMERCIAL display, full page $74.50, Half page $46.00, 1/4 page $28.50 and 1/8 page $17.50 camera ready. Lay-out, make-up fee is according to size and type-set of ad. DEADLINE FOR ALL ADS & COPY is 8th of each month IN P.O. Box 501, Miami Springs, FL 33166. Thank you for your cooperation. Editor.

NEW ARRIVAL ON WAY, must sell: Bearcat scanner crystals mostly South Florida Hi VHF. What you need? Midland UHF/VHF pocket scanner, accessories $120. Unimetrics 8 channel scanner $80. Bearcat UHF scanner, 8 channel $50. General Electric mobile 6 meter prog line 3 channel, make offer. Heath HW-8 and supply $130.00. Heath HW-16 with VFO $150. Electra Fuzzbuster radar detector, new $60. Wanted: Motorola tone/voice pager with accessories 152 MHz. Tom Smith WB4RGQ, 25 South Halifax, Daytona Beach, FL 32018 904 252-2906.

GENERAL ELECTRIC Master Professional base station. Now being used on two meters. Four channel transmit and receive, 80 watt transmitter, with control head mounted on power supply. For 19" rack mounting - not included. This unit is being advertised for over $2,000.00 in the current issue of "Communications Journal" asking only $700.00 - you pick up. Contact Jim McQuagge, K4LIX, 11765 SW 32nd Terr., Miami, FL 33175 305 226-1979.

TRANSFORMERS REWOUND! ! JESS PRICE, W4CLJ, 507 RAEHN STREET, ORLANDO, FL 32806 PHONE 305 425-7251.

SELL: Two 625 RD Yaesu 6 meter all mode - two Swan 6200 SWR-watt meter, Motorola H23DEN-1130 AW, 2 chnl HT, 13/73, 22/82, desk drop in charger. Extra nicads, carrying case - Midland 13-895 converted to 10 meter, SSB/AM, AC/DC, Dentron super tuner, Ring transformer for 2 element triband quad. Richard Lazar Jr., WD4AKN, 1407 Mara Ct., Sanford, FL 32771 305 323, 3925.

BEAUTIFUL WOMEN–EVEN IF THEY CAN'T ADD–CAN CERTAINLY DISTRACT!

FOR SALE: ROHN 60 foot heavy duty tower, house bracket, ground slab, bolts& nuts, guys and on-the-ground rest brace. (allows one to work on beam with tower tilted. Ready to haul $250. SWAN 600R Custom with 2.7 and 0.6 filters $265. Swan 600T, $255 SWAN FP-1 & speaker $50. All units look new with manuals. All three for $525. Heathkit HM-102, 0-2000, 0-200 Watt and SWR meter $30.
Andy Clark W4IYT, 41 Lenape Dr., Miami Springs, FL 33166 305 888-3874 after 6 pm please.

FOR SALE: Yaesu twins, FR 101D & FL 101, like new condition, FR101D has digital readout, extra s.w. xtals and 6 meter converter. Work cross band! Bill Whitley KB4SW, 3129 NW 12th St., Gainesville, FL 32601 904 373-2647. Both $850.

STOLEN EQUIPMENT: My car was froken into July 29th at the parking lot of Parkway Hospital and following stolen: Tempo VHF 1Plus 2 meter transceiver with auto-patch Ser. No. 9300. Tempo 130 A10 amplifier Ser. No. 346916. Kenwood TR-2400 Hand Held 2 meter transceiver Ser. No. 00 60464 plus other misc. gear. Reward. Harlan Cohn W4UIM, 9831 Colonial Dr., Miami, FL 33157.

FOR SALE: TS820 with digital readout, c.w. filter and MC-50 microphone $725.00, like new. Jim Gundry W4JM, 2908 Forestgreen Dr., South, Lakeland, FL 33803 813 644-3435.

FOR SALE: YAESU SP101-PB Landliner spkr;phone patch $55. YC-601B new in box, didital readout/frequency counter $185. Hy-Gai Gain BIG GUN II, 10-11 meter, 4 element quad with 14.6 dB gain $65. with manual. Gonset Mod 3156B, Aircraft base receiver, 118 to 135 Mhz., 115 v.a.c. operation with speaker $65. excellent condx Sony 4 X 5 1/2" B&W TV, 12 VDC or 115VAC portable. Can get picture but needs knobs and work. $15. Heath 100 kc Xtal Calibrator Mod. HD-20 $12.00 complete with Xtal. Andy Clark W4IYT, W4IYT 41, Lenape Dr., Miami Springs, FL 33166 888-3874

URGENTLY NEED HELP. Inlet Rescue Service. Need equipment-towers, rotators, transceivers, 2-30MHz SSB & 460-470 MHz. even Radar, no less than 30 miles. All donations are tax ductable. For more details: John Dent WA4MEJ, 1514 Lance Rd., Jupiter, FL 33458 305 746-1487.

FOR SALE: Collins receiver, Model 51N2, crystal control, 110 v.a.c. Can remote it via telephone lines, perfect for MARS, CAP or RTTY Nets. Have some Collins filters built in. Manuals, can ship UPS, only $50. each. 8 Ft. collapsible (to one foot) antenna with 1/2 inch mounting stud. Can be adjusted for 15, 10, 6 or 2 meters as ground plane from car or apartments. $5.00 each. A. C. Clark W4IYT, 41 Lenape Dr., Miami Springs, FL 33166 305 888-3874.

COAX - HARD LINE 50 ohm, 1" alumn. very low loss to 200MHz. only .40 cents per foot. You pick up only! Have about 300 feet left. LAPP insulators 5" .80 ea., 9½" $1. ea., 11¾" $1.25 each. Best money can buy & will last forever with care.
52 Ohm with connectors,
HEATH 2-way hi-fi enclouser $15. Astatic D-104C, with grey push to talk stand, $30. Andy Clark W4IYT, 41 lenape Dr. Miami Springs, FL 33166 305 888-3874.

SELLING: ATLAS210X plus mike, base console, DLX mobile mount. 5 mobile antenna. Excellent condx, less than 50 hours. (No room in car for HF and 2M rigs.) $600. firm. WANTED: DC power supply (13.5 vdc at 8 A); 2 meter beam. Glen Tucker WD4DAH, Rt. 4, Box 135, Live Oak, FL 32060 904 362-5539 after 5 or 362-2252 before 4 p.m. please.

FOR SALE: Kenwood 520 S.E. CW filter $595. Kenwood AT-200 SWR & wattmeter $125. Kenwood TR-7625 5 & 25 watts $300. Kenwood KPS-7 d.c. power supply $70. All in mint condition. Charles W. Lent WB4YPS, 231 Hubbell St., Edgewater, FL 32032 904 427-3922.

FOR SALE: ICOM IC230 NHF FM Xcvr $175. Dycom 2 meter FM amp. 15 in 60 out, factory wired $50. Janel QSA-5 2 meter in line pre amp $30. KLM 16 element 2 meter beam $50. KLM 11 element 2 meter beam $35. Hustler 2 meter 5/8 wave coliner, damaged but works fine $10. R. F. Ochs K4KCF, 5107 El Claro So., West Palm Beach, FL 33406 305 684-2951.

STOLEN from swap table at Jax Hamfest Aug. 2nd. One Tempo S-1-T Sn. 6048. Reward for return. Jim Kelley K4YBB, P. O. Box 309, Opahumpka, FL 32762.

SELLING OUT' Drake T4XC and AC supply. Hardly used $490. Home brew transistorized keyer and Vibroplex key $40. Ringo Ranger $15. Drake wattmeter W4 $45. Prefer most items picked up so I can demostrate. Cash or cashiers check. Al Greulich K4ERM, 245 - 7th Ave., No., Safety Harbor, FL 33572.

CHOP YOUR OWN WOOD AND IT WILL WARM YOU TWICE.

FOR SALE: Linear amplifier pair 813s grounded grid solid state heavy duty power supply 80 thrugh 15 meters. Amplifier RF unit in Swan 500 cabinet $165. to licensed amateurs only. Carl Coleman K4WJ, 3310 NW 27th Ave. Gainesville, FL 32605 904 378-9566.

FOR SALE: Heath SB-303 receiver, SB-400 transmitter with matching speaker also electronic keyer. All for only $400. Bill Mathis WB4MVY, 1190 NW 134th St., No. Miami, FL 33168 305 685-9389 after 5 p.m.

FOR SALE: COLLINS S Line from estate of K4UX. 32S3, 516-F2, 75S3, 312B-4, 664 EV mike, SB-200 amp. All in excellent condition in original cartons with all manuals. As package only $1200. plus UPS. Vic Gomes W4DN, 5425 Azure Way, Sarasota, FL 33581 813 349-8629.

FOR SALE: Hallicrafters SX-101 receiver, HT37 transmitter, Astatic mike, Heath power meter $300. Lot or will sell individually. Dave Bugg WD4KZC, 1270 NE 26th Terr., Pompano Beach, FL 33062 305 781-5099.

FOR SALE DRAKE TR4, RV4, AC4, MS4 $475. T599A, R599A, S599, magnum-six $600. HW-16, HG-10B $125. Richard Knox AJ4E 2761 Admirals Walk Dr., Orange Park, FL 32073 904 264-0756.

FOR SALE: SOLA Constant voltage d.c. supply, 115 v.ac. in and 48 VDC at 4 A. out. $17. Sola (same as above) except 250 v.d.c. at 1 A. out. Standard 19 inch panel by 6" high $15. each. Rcvrs: National HRO-50Rl, coils A B C D E F with coil/spkr cabinet, 19 inch rack mount if desired. $90. Nactional NC-240, supply, manual. Tunes 480 to 32,000 kHz continous, 19" rack mount $60.00. Collins 51J4, manual, 2 filters, good condx $320. All plus shipping. Heath 4-antenna coax-switch mod. ID-1234, perfect $15. Andy Clark W4IYT, 41 Lenape Dr., Miami Springs, FL 33166 305 888-3874 evenings please.

FOR SALE: From estate of K4UX. Clegg FM27B 2 meter FM Xcvr with Heath SWR Bridge $125. Also, Allied Communication A-2515 receiver $85. Vic Gomes W4DN, 5425 Azure Way, Sarasota, FL 33581 813 349-8629.

FOR SALE: Deluxe portable combination cassette tape recorder with VHF-TV sound, AM and FM radio, a.c. or d.c. 6 volts. Hear & record TV soap operas, sports, etc. direct from unit. Built in condenser mike and give external jacks. Seperate RF sections for each band. Ceramic filters. Exceptional selectivity and sensitivity. Works anywhere. Recorder is belt driven with governed motor. Cost $110.00 [will sell for $70. brand new! Panasonic model TR-545 5" pop up black and white portable TV, with FM and AM radio. Brand new. 3-way operation, a.c. self contained recharable batteries or car or boat battery. Recharable batteries give 5 1/2 hours viewing on TV 14 hours on am or fm radio. Automatic battery recharge system built in with automatic over charge and deep discharge protectors, also automatic, voltage regulator. Rechargeable batteries good from 4 to 5 years. Cost $200. will sell for $150. Both above portable units ideal for emergency use during hurricane season. Hank Projansky W1GSI/4, 1560 Jefferson Ave., Miami Beach, FL 33139 305 532-5998.

FOR SALE: TELEX CM-1320 mike/headset. Top of the line with boom microphone–ceramic high impedance. The choice of DX-pedition and contest operators. Sells $71.70, asking $45. Heavy duty push to operate foot switch, grey, DPDT contacts. Will last forever $8.50 all FOB. A. Clark W4IYT, 41 Lenape Dr., Miami Springs, FL 33166 305 888-3874 evening or take a chance during day.

NOTICE: PLEASE check your mailing label. If your ZIP number is not correct please advise us soon as possible. If number is off by only one, it will delay your SKIP as long as 4 or 5 days, we are told. EDITOR.

PLEASE DON'T FORGET: Our HAMBAR deadline is the 8th of each month. This means, your ad MUST be IN Box 501 by the 8th. DO NOT CALL editors home with HAMBARS or last minute changes. We WILL NOT accept them! All Hambars received after the 8th will be held for the following month. Thanks for your cooperation and consideration! ! Editor

COLLINS MECHANICAL FILTER F-455 C 12 Part No. 522 9041 002, like new $15. each - have 3. Collins power supply, standard 19 inch panel by 10" hi. 115VAC in with following outputs: 160 /minus, -150 R, -400 plus300 and plus 150R, all at least 80 ma. has 3½ inch metered on all voltages, beautiful construction $15. Heathkit 2 cross-over enclouses, all wood, lite oak, 10H X 23W X 12 deep, has trible control, only $17. Electro-Voice Bookshelf speaker system, 8 inch full ranger speaker, 50 to 13,000 cps response is conserviate. All wood construction. About same measurements as above Heath.$15. Andy Clark W4IYT, 41 Lenape Dr. Miami Springs, FL 33166 305 888-3874.

NEW REPEATER MAPS. FLORIDA SKIP map editor, Bill Tucker W4FXE just completed his 2nd All Florida 2 meter map. It's off the press! It measures 11 X 17 inches and printed black on heavy green stock. Easy to read, all repeaters are boxed in along side of their city. There is an additional listing by frequency in a large box. We sold hundreds of these in past year or so. This one is up to date as of 3 weeks ago. We are selling these maps for only 25 cents each plus a No. 10 S.A.S.E. For the price of a cup of coffee, you cant go wrong with this nice map. FLORIDA SKIP, Box 501, Miami Springs, FL 33166.

RTTY! Like new, HAL-5000 demodulator just checked and brought to advertised specs by HAL factory. Complete with internal AFSK generator, all connectors, etc. $165. Have two Macrotronic M-80 boards. One mounted in shielded steel cabinet $85. Others as naked as the day it was shipped $70. All plus shipping. Dick Biow, KA4-AIZ, 717 Denton Rd., Winter Park, FL 32792 305 671-7179.

VOLUME 6, 7 Rider's perpetual trouble shooters manual (1930's) $20. each, $30. pair. Homebuilt 1920's vintage one tube radio, complete, mint, with extra O1A tube $60. FCC class I/II cram course material, 80 pages $20. Cigar box full of WWII mint Vibroplex hardware (no bases). Enough to 80% complete 5 bugs or keyers less minor screws, etc $40. all or $10. per key. New-old stock grey slate key bases, most 3" X 4 3/4" X 1/4", felt backed, some undrilled $7. each. (Send tracing of your key, will drill for $1.00. Several old railroad keys, sounders, etc. Make offer. Will trade. WANTED: McElroy aero key (aluminum base) 1930's or 40's. ARRL Handbook. John Zimmerman WB4RLM, Box 7445, Miami, FL 33155 305 751-3849.

FOR SALE: SWAN 250C, mint $250. TS-520 with digital readout (external) $550. L. Weller WA4QHA, 3180 NW 40 Ct., Ft. Lauderdale, FL 33309 305 739-1908.

WANTED URGENT. Schematic and parts layout for the FMSC-1, Scan adapter for the KDK FM-144. Edward Kane K4MAS, GMF, Box 520042, Miami, FL 33152, 305 443-4348.

FOR SALE: Standard C-146A - 2M, 5 channel ham held with touch-tone, charger, leather case, external mike and rubber duck antenna. A-1 condition, $150 or best offer. B&W coax switch model 550-A $10. NPC model 107 power supply $10. Ameco code oscillator $10. Eico code oscillator, model 706 $10. KLM-KR400 controller unit $25. CES touch tone pad $20. Frank Nankin K4BNZ, 16558 NE 26th Ave., North Miami Beach, FL 33160 days 305 940-6155 or nights 305 944-1908.

FOR SALE: YAESU FT-901DM transceiver top of line and perfect dondition with all accessories $985. for quick sale. Herb Ostrom K4OO, 845 NE 72nd St., Boca Raton, FL 33431 305 997-6320.

FOR SALE: SWAN HF 750 xcvr 500 watts PEP. PSU 3A power supply for same. Shure 444 desk mike, Swan VX2 VOX, Swan WM2000 deluxe 2000 watt SWR & wattmeter, B&W 376 five position coax switch, Willard Chinn, N4ANZ, 40 NE 105th St., Miami, Shores, FL 33138 305 757-1346.

SELL: Alda 105 solid state 200W PEP Xcvr $450. Realistic DX150 A receiver $50. Glenn Andrews W4OMY, 2829 Florida Blvd. No.502, Delray Beach, FL 33444 305 272-2176.

RTTY - Famous ID-1 WRU printed circuit board will parts list and instructions. One pulse from your stunt box or sel-call unit gives you complete automatic answer back in both RTTY and CW with on board fail-safe timer. Only $15. each postpaid. MICROPIPES, Inc., P. O. Box 650809, Miami, FL 33165.

F R E E: QSTs 1976 to date. Reference texts. Al Wilcox,W4-ELR, 3735 SW 59 Ave., Miami, FL 33155 305 661-7283. Local pick-up only!

FOR SALE: Collins "S" line 75S3B receiver SR. 17598 with matching 312B-3 speaker, 32S3 transmitter SR 100615 with 516F-2 power supply. Round emblem, very mint, no dents, scratches, or dirt. No modifications. Original boxes, manuals and sales receipts. All for $1600. Reason selling–retireing and going mobile. John Lehosky, 18161 Dalewood Ave., Maple Heights, OH 216-662-6517 or Bud Miller K4AIK, 902 Nightingale Ave., Miami Springs, FL 33166 305 887-7655.

MORE PEOPLE ARE RUN DOWN BY GOSSIP THAN BY AUTOMOBILES!

Teletype Supplies: Paper punch tape for models 14, 19, 28 ASR, 32 ASR etc. $15. per box of 10 rolls. As above but for 33, 35 etc. (ASCII) $15. per 7 roll box. Ink, ribbons, new $1.00 each. Mike Richman W8ADZ, 5113 Memorial Hwy, Tampa, FL 33614 813 885-1789.

FOR SALE: Mosley 3 element M P tig array beam 10-15-20 meter antenna. 750 watt AM/CW 2000 watts PEP SSB. No corosion, mint condition. Pick up only for $85. S. J. Laurenty WB4GLT, 7550 Taylor St., Hollywood, FL 33024 305 989-4801.

FOR SALE: Heath SB-110, 6 meter transceiver and matching Heath SB-500 2 meter transverter, set only $400. Heath Q meter QM-1 $15.00. Almost finished keyboard keyer like the one in June 1975 QST $20. without keyboard. Free Hallicrafters SX-71 receiver needs work. Tom Lewis, N4TL, 4201 NW 37th Terr., Lauderdale Lakes, FL 33309 305 733-1585.

HAMMOND Electronic Organ A-100 Rytym box, color lights, metromome, Leslie Consoles (3) 150 watts, Hammond B-3 speaker - four sound chambers, 16 speakers, 75 watt cores. Will sell for Silver Dollars or trade for Collins KWS-1. Cost new $4,400. Cal Bates W4LFL, 9875 SW 83rd St., Miami, FL 33173 305 274-5607.

SELL OR TRADE: Motorola Micor VHF mobile unit, 60 watts, 4 freq., PL. Complete with 6 receive, and 4 transmit channel elements, 1 set of PL vibra, no cable or controlhead. $600. Will swap for HT-220, 6 freq. with battery, charger and Motorola tuchtone pad, or model 28 teletype in good condition. Bill Mauldin, KA4JUL 2268 NW 30 Road, Boca Raton, FL 33431 305 994-8484.

FOR SALE: The perfect mobile rig!! Kenwood TR-7400A. 34 w. fully synthesized, 3 microphones, 2 hangars. Absolutely mint in the box!! $350. Jerry Monash WA4GEN, 9960 SW 54 St., Miami, FL 33165 305 598-3851.

FOR SALE: Kenwood 700SP, 2 meter all-mode, AC-DC power. Dentron 160-10 Suoer tuner 1Kw. DSI 3550 digital freq. counter. All with manuals. Bill Taylor N4BHC, 118 NW Gaillard, North Port, FL 33596 813-426-1531 after 6 p.m.

FOR SALE: KENWOOD TS520S transceiver with CW filter and Shure 444T mike $550. HQ-1 Mini-quad antenna with AR-22XL rotor and cable $75. Sam Traeger W4RK, 14400 SW 81 Ave., Miami, FL 33158 305 235-3018.

FOR SALE: Mini-products hy-brid quad with Alliance rotor and cable $135. Dave Aukamp W4MJB, 1399 Dinnerbell, Dunedin, FL 33528 813 733-7175.

WANTED: 40 to 60 ft. crank-up fold over tower. Rob. Pohorence, General Delivery, Stuart, FL 33494

The ICOM and Kenwood International Clubs are now under one name "USERS INTERNATIONAL RADIO CLUB" seperate news letters are published. A wealth of information for ICOM and Kenwood users. Details SASE to 9600 Kickapoo Pass, Streetsboro, OH 44240.

TOWER: EZ Way RBS-40, 40 foot crank-up, tilt over, rotor head and ground post. Good condition. You pick-up $200. Phil Partee W4ABI, 12305 NW 5th Ave., Miami, FL 33168 305 681-1914.

WANTED: HF Linear amplifier. Prefer one without tubes. Condx not important, price is. Dante Ventriere KA4JRE, 17831 NW 81 Ave., Hialeah, FL 33015 305 823-1191.

WANTED: ARRL Handbooks prior to 1942. Also Radio Engineering Handbooks prior to 1940. Must be in extra good condition, all pages intact with covers, stiff covers preferred for my library. John T. Marshell, 3430 NW 2nd Terr., Miami, FL 33125 305 649-4199.

SELL Allied 2515 all transist. communication receiver, 5 bands, 150 kHz to 30 MHz, like new with manual $85. Matching homebrew QST tuneable r.f. amp. plus xtal (6400) contl'd conv. for above receiver $25. Both for $100. Local sale preferred. Morris Levy K4MWI, 835 Alton Rd., Miami Beach, FL 33139 305 672-7739.

FOR SALE: TH3 Jr, 3 el. beam, used nine months now in box. 1 Kenwood MC-50 mike, new unused, make offer one or both. Bill Banks, KA4AYZ, 9880 NW 4th St., Pembroke Pines, FL 33024 305 431-5922 after 6 p.m.

WANTED TO BUY: Used 2 meter rig $100. or under. Xtal type OK. Stu Looney WB4RBE, Rt. 1 Box 129A, Grundy, VA 24614.

FOR SALE: YAESU FT-101B with c.w. filter and fan, 2 mikes, dust cover, manuals, factory cartons, mint condition $550. Dave Post WD4INU, 807 Hunter Park Place., Titusville, FL 32780 305 267-2698.

FOR SALE: Hy-Gain 14AVQ/WB 10 thru 40 meters, trap vertical antenna $40. and Cushcraft Ringo Ranger ARX-2, 2 meter antenna $15. or trade both for good 10 amp. 12 v. power supply. Both like new with assembly instructions. Wayne Winkler K4TSG, 500 Main St., Thonotosassa, FL 33592, 813 986-4073.

DON'T DRIVE AS IF YOU OWN THE ROAD: DRIVE AS IF YOU OWN THE CAR!

FOR SALE: Ten-Tec Argonaut 515 (the new model). Notch cw filter, power supply and both 10 meter xtals. Brand new, never used. Will sacrifice $400. plus UPS or pick-up. Tom Mosby W4VBW, 3428 Flamingo Ave., Sarasota, FL 33581 813 349-4851.

FOR SALE: Kenwood TS-520, late model Ser. 340680, mint condx. $500. Gene Young W4LIT, 1247 Overcash Dr., Dunedin, FL 33528 813 734-8082.

DRAKE TR-4, AC4, MS4 $340. R4B $259. TR-22C $119. ICOM 245 SSB/FM $359. IC-21A, DV-2A $279. NDI HC-1400 and TT $229. Tempo VHF one plus $219. Touchtone pad $19. New Dummy load with oil $25. HP-13B $25. Collins DC-551 with mobile mount $45. Shure 444 $25. VHF marine radio Ray Jeff $160. Chas Fowkes WB4BOM, 4903 - 29th Ave. West, Bradenton, FL 33529 813-792-4049.

PROFESSIONAL type 2154 MHz downconverters complete with pwr supply and 18 db gain antenna. Only 12 left as of this printing. When these are gone there will be no more. Price $350. Decoders available for an additional $100. Contact Robert Chanter WB4HAG, 1731 NE 15th St., Ft. Lauderdale, FL 305 564-4191.

FOR SALE: SB-101, HP-23A supply, c.w. filter, SB-600 speaker with all manuals. Excellent condition and no scratches $275. Pick up only. K. Sandstrom W4TTB, 2000 North Keene Road, Clearwater, FL 33515 813 442-1772.

MICROLOG SYSTEM: Send/receive RTTY, morse and ASCII. 1950 character expander text buffer, split-screen to compose return transmission while receiving. Keyboard AKB-1E, decoder AVR-2 and 9 inch video monitor. Several more options included. All only 4 months old. Cost $1,400.00 new, will sacrifice for $950. Also have a 160 foot piece of Andrews RG-318/U Heliax coax cable in good condition with connectors on it $300. You pick up. Tom King WB4ILH, 5806 Keith Rd., Jupiter, FL 33458 305 746-7589.

TO GET A JOB DONE, ASK THE BUSIEST PERSON YOU KNOW TO DO IT!

Decoders - Amateur TV descrambler printed circuit board with instructions and parts list $15. each postpaid. Send for list of complete prices and parts to MICROPIPES, Inc., P. O. Box 650809, Miami, FL 33165.

FOR SALE: Ten-Tec 544 digital transceiver with cw filter, moise blanker and deluxe P.S. with/VOX. All new $650. Lunar all-mode 2 meter amp 30 W. in 160 out with receiver pre-amp. $175. Shakesphere 6 dB fibreglass repeater antenna. Must sell bargin $150. You pick up antenna. Tom King WB4ILH, 5806 Keith Rd., Jupiter, FL 33458 305 746-7589.

FOR SALE: VHF Engineering 12 VDC , 24 amp. regulated power, with manual. Sells $114.95, Asking $75. Model PS12. RCA WR-50 B, RF signal generator, 200 kHz to 43 MHz, 6 steps, book $45.00. KUSTOM 30 watt amp by Ross, Inc. $50. CONAR color generator Model 680 with manual $45. Heath General coverage rcvr (one of first by Heath), works. $15. Realton AM/FM Stereo Multiplex receiver $25. YAESU FT-101 series plug-in modulator PB-1184A, new in container $25. ASTATIC D-104, power mike with G-stand P-T-T with 4-prong connector (for FT-101, etc) $45. All plus UPS. Andy Clark, W4IYT, 41 Lenape Dr., Miami Springs, FL 33166 305 888-3874 after 6 p.m. please!

SELL OR TRADE: Kenwood TS820S, VFO-820, SP70, cables, manuals. Robot 400 slo-scan (new), camera and 12 inch monitor. Mod. 33 ASR teletype, extra paper, tape, parts and manuals. 7" reel to reel stereo tape recorder. HD mobile power supply. A.E. Clark W5ULQ, 1450 Lake Lotela Dr., Avon Park, FL 33825 813-453-5660.

FOR SALE: ATLAS-210 with noise blanker, console, VOX unit, mobile mount, Shure mike, mint condition. Will ship $525. Fred Weigel WD4BBZ, 3027 SW Cedar Trail, Palm City, FL 33490 305 286-0614.

MICROWAVE DOWNCONVERTERS - Two GHz printed circuit board with parts list and instructions $5.00 each postpaid. Use for 1.7 GHz weatherfax, 2.154 GHz MDS, and other microwave services. MICROPIPES, Inc., P.O. Box 650809, Miami, FL 33165.

FOR SALE: KENWOOD TS-520, like new $490. Drake TR-22C FM 2 meter with crystals and d.c. supply $150. 2 meter 3 element beam $10. MFJ-751 audio filter $25. Other items, coax , connectors, rotor, meters, mikes, bug and more. Bill Hurley WD4GDR, 3035 Hickory Dr., Largo, FL 33540 813 584-4432 or 585-5478 (business)

FOR SALE: ATLAS 210X limited edition, with noise blanker, quick disconnect mobile mount, turner mike, Hustler mount, mast and resonators for 10 thru 80 meters $450. Telrex 8 element 2 meter ants. 1 pair, complete with stacking boom, hardware and harness $125.00. Homebrew 2 meter amp, 4CX250B, 80 to 100 watts $100. Standard HT 146A, charger, TTP, 94/94, 10/70, 13/73, 52/52, 16/76 Nicads $100. Donnie Benton WA4TQD, 212 Woodmere Blvd., Sanford, FL 32771 305 323-5064.

FOR SALE: Heathkit HW-16 novice transceiver with HG-10B VFO $100. Charles Cox KA4ATJ, 1544 S. Betty Lane, Clearwater, FL 33516 813 446-4952.

DOING LESS THAN THE AVERAGE KEEPS THE AVERAGE DOWN.

COMMENTS FROM THE NEW NORTH FLA. SCM

My appreciation to those who have volunteered for work in the ARRL North Florida Section structure. I have been at work for the past month putting together a "team" which will serve the members during the next 2 years. A couple of dozen appointments to leadership positions have been made and more will be announced in the future.

Emergency Communications will continue to be one of my top concerns and the idea of all the area clubs working together on things besides the hamfest is becoming reality. George Sherman, WD4BII, is well-qualified for the new post of District Emergency Co-ordinator (DEC). He will be working closely with Tom Castiglia, N4BFX, and the American Red Cross.

Harold Hobbs, WA4VZF, will continue as Emergency Co-ordinator of Duval Co. Harold served us well in this capacity for the past ten years and his experience is valuable and I am glad to announce his re-appointment.

On the state level, Walt Terrie, N4WA, of Tallahassee will stay on as in phone net operation as well. It is this versatility which makes him him the right man for the job. He will co-ordinate the activities of the traffic nets in the section. He is just finishing his term as President of the Tallahassee Amateur Radio Society.

I am also happy to announce that the two-year dispute between ARRL Florida and the Florida Midday Traffic Net has been settled because of co-operation on both sides. Effective July 1st, the All-Florida Phone Net and FMTN were combined to represent the entire state into the National Traffic System. In return for retaining their right to elect their own leadership, FMTN members agreed by a vote of 51 to 3 to meet on Sunday at the request of myself and South Florida SCM Woody Huddleston, K4SCL. So again, FMTN is now an official APRL Net. All other nets in the Florida structure will remain essentially the same.

A Jax ham and NOFARS officer . . . Bud Barnes, N4BZH, was named as Manager of the North Florida Phone Net which meets at 6:30 p.m. local time on 3.950 mHz. Bud has been an NFPN member for over a year and has served as Net Control on both NFPN and the FAST Net.

To insure that all areas of the section have easy access to the section administration, several Assistant SCMs and "branch offices" have been created. These are located in Gainesville, Orlando, Maitland-Seminole Co., Pensacola, Brooksville-Hernando Co., and Daytona Beach. Others may be appointed as needed.

If you are an APRL member and would like to serve as an Official Observer (OO), Official Emergency Station (OES), Official Traffic Station (OTS), Official VHF Station (OVS), or Official Bulletin Station (OBS) please contact me. We already have many hams serving in these capacities but we can always use more. See your **ARRL Operating Manual** for more info on the duties and benefits of these appointments.

N4UF, Billy Williams
SCM, N. Fla.

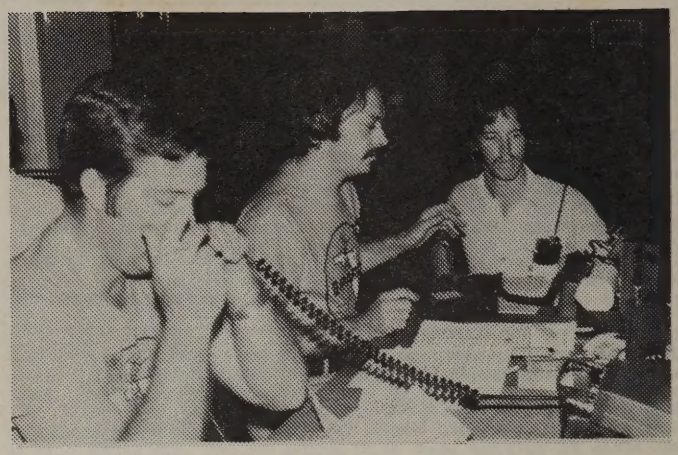
NEW NET DIRECTORY

The new edition of the ARRL Net Directory is now available. Listing nearly 800 public service nets by location and frequency, this newly revised booklet is also packed with information on all the basics of traffic handling and net operation.

You may obtain a copy by sending a self addressed nine by twelve inch envelope with forty one cents U.S. postage to: ARRL Net Directory, 225 Main Street, Newington CT 06111 AR.

NEW AMATEUR PUBLICATION

An introductory guide to formal traffic handling has just been realeased by Florida Skip, Inc. Entitled "Message Handling By Radio," the forty page booklet by WB4BBH provides step-by-step instructions with examples designed to teach totally inexperienced operators how to pass formal written messages effeciently by radio. It is currently being used by both Dade County ARPSC and by Dade County REACT as the center of their message handling training programs for hurricane disaster communications. The booklet may be obtained from Florida Skip, Box 501, Miami Springs FL 33166 for $2.50 postpaid.



The Jax Hamfest (Aug. 2-3) which was very well attended, set-up a "Traffic Booth." Here (R to R) WA4UKJ, WBØ-YCJ & WD4AOG check into the Florida Midday Traffic Net with traffic. Attendance was over 3K. (Photo by N4CUK)

SPECIAL EVENT STATION

Amateur station KA8COI will be operating as a special event station this Labor Day, September 1, 1980, during the course of the annual Muscular Dystrophy Telethon hosted by Jerry Lewis. A numbered certificate will be available to all stations making contact with KA8COI during this period. There will be no charge or fee for the certificate, stations are requested to send a SASE with their QSL and mention their QSO number which will be given them on the air. No third-party traffic will be handled on the behalf of the Muscular Dystrophy Association and no solicitations for donations will be made over the air. Anyone wishing to donate to the M.D.A. is urged to do so through local telethon station. The M.D.A. is a non-profit charity, donations would be tax-deductible.

The Muscular Dystrophy Association has been contacted about this operation and has issued their formal approval. The certificates will bear the signature of Jerry Lewis, National Chairman for the M.D.A.

Date: September 1, 1980. **Time:** 0330 to 2230 GMT. **Frequency:** 7.230 MHz SSB. Send QSL Information, QSO Number & SASE to: KA8COI - MDA Certificate, P.O. Box 332, South Webster, Ohio 45682.

For further information on this press release contact:
Al Graff, KA8COI
P.O. Box 332
South Webster, Ohio 45682

TWO MORE 6'S CITED BY FCC

Two more California amateurs have been cited by the FCC for jamming the Grizzly Peak repeater, WB6AAE/R, in late May. One, an Extra Class license holder, was caught sending unidentified CW on the repeater input. The other a NoviceYL was cited for operating on the repeater using a false call. Neither was identified in the release from the San Francisco FCC FOB. Thanks N6SF (HR REPORT 8/8/80)

"ATTENTION ALL HAMS WHO WORKED DURING HURRICANE ALLEN:
Thanks for a great job. Without your help many people in the islands would not have received our warnings. We look forward to working with you during future hurricanes.
73 Dr. Neil Frank"

I would personally like to extend by sincere thanks to those who operated or helped with the Amateur Radio Operations at the National Hurricane Center, to the ARPSC, Dr. Frank Merceret WB4BBH, Andy Clark W4IYT, Rick Silverston WD4JJI, Ham Robinson W4ZR and the FM Association 16/76 RPT, without all of their help, this operation would have been impossible.